HIGHLIGHTS OF PRESCRIBING INFORMATION
These highlights do not include all the information needed to use TRIKAFTA safely and effectively. See full prescribing information for TRIKAFTA.

TRIKAFTA® (elexacaftor, tezacaftor, and ivacaftor tablets; ivacaftor oral granules), co-packaged for oral use
TRIKAFTA® (elexacaftor, tezacaftor, and ivacaftor oral granules; ivacaftor oral granules), co-packaged
Initial U.S. Approval: 2019

1 INDICATIONS AND USAGE
TRIKAFTA is a combination of ivacaftor, a CFTR potentiator, tezacaftor, and elexacaftor indicated for the treatment of cystic fibrosis (CF) in patients aged 2 years and older who have at least one F508del mutation in the CFTR gene or a mutation in the CFTR gene that is responsive based on in vitro data. If the patient’s genotype is unknown, an FDA-cleared CF mutation test should be used to confirm the presence of at least one F508del mutation or a mutation that is responsive based on in vitro data.

2 DOSAGE AND ADMINISTRATION

2.1 Recommended Dosage in Adults and Pediatric Patients Aged 2 Years and Older

<table>
<thead>
<tr>
<th>Weight</th>
<th>Morning Dose</th>
<th>Evening Dose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than 14 kg</td>
<td>One packet containing elexacaftor 80 mg/tezacaftor 40 mg/ivacaftor 60 mg oral granules</td>
<td>One packet containing ivacaftor 59.5 mg oral granules</td>
</tr>
<tr>
<td>14 kg or more</td>
<td>One packet containing elexacaftor 100 mg/tezacaftor 50 mg/ivacaftor 75 mg oral granules</td>
<td>One packet containing ivacaftor 75 mg oral granules</td>
</tr>
<tr>
<td>Less than 30 kg</td>
<td>Two tablets, each containing elexacaftor 50 mg/tezacaftor 25 mg/ivacaftor 37.5 mg</td>
<td>One tablet of ivacaftor 75 mg</td>
</tr>
<tr>
<td>30 kg or more</td>
<td>Two tablets, each containing elexacaftor 100 mg/tezacaftor 50 mg/ivacaftor 75 mg</td>
<td>One tablet of ivacaftor 150 mg</td>
</tr>
<tr>
<td>12 years and older</td>
<td>Two tablets, each containing elexacaftor 100 mg/tezacaftor 50 mg/ivacaftor 75 mg</td>
<td>One tablet of ivacaftor 150 mg</td>
</tr>
</tbody>
</table>

• TRIKAFTA should be taken with fat-containing food.
• Should not be used in patients with severe hepatic impairment. Use not recommended in patients with moderate hepatic impairment unless the benefit exceeds the risk. Reduce dose if used in patients with moderate hepatic impairment. Liver function tests should be closely monitored.
• See full prescribing information for dosage modifications due to drug interactions with TRIKAFTA.

2.2 Recommended Dosage for Patients with Hepatic Impairment

- Fixed-dose combination containing elexacaftor 50 mg, tezacaftor 25 mg and ivacaftor 37.5 mg co-packaged with ivacaftor 75 mg;
- Fixed-dose combination containing elexacaftor 100 mg, tezacaftor 50 mg, and ivacaftor 75 mg co-packaged with ivacaftor 150 mg.

3 DOSAGE FORMS AND STRENGTHS

Tablets:
- Fixed-dose combination containing elexacaftor 50 mg, tezacaftor 25 mg and ivacaftor 37.5 mg co-packaged with ivacaftor 75 mg;
- Fixed-dose combination containing elexacaftor 100 mg, tezacaftor 50 mg, and ivacaftor 75 mg co-packaged with ivacaftor 150 mg.

Oral granules:
- Unit-dose packets of elexacaftor 100 mg, tezacaftor 50 mg and ivacaftor 75 mg co-packaged with unit-dose packets of ivacaftor 75 mg;
- Unit-dose packets of elexacaftor 80 mg, tezacaftor 40 mg and ivacaftor 60 mg co-packaged with unit-dose packets of ivacaftor 59.5 mg.

4 CONTRAINDICATIONS

- Elevated transaminases and hepatic injury: Liver failure leading to transplantation has been reported in a patient with cirrhosis and portal hypertension while receiving TRIKAFTA. Avoid use of TRIKAFTA in patients with pre-existing advanced liver disease, (e.g., as evidenced by cirrhosis, portal hypertension, ascites, hepatic encephalopathy) unless the benefits are expected to outweigh the risks. If used in these patients, they should be closely monitored after the initiation of treatment. Isolated elevations of transaminases or bilirubin have been observed in CF patients treated with TRIKAFTA. In some instances, transaminase elevations have been associated with concomitant elevations in total bilirubin and/or international normalized ratio (INR) and have resulted in patients being hospitalized for intervention, including patients without a history of pre-existing liver disease. Monitor liver function tests (ALT, AST, and bilirubin). Interrupt dosing in the event of significant elevations. In patients with a history of hepatobiliary disease or liver function test elevations, monitor more frequently. (2.2, 5.1, 8.7)
- Hypersensitivity reactions: Angioedema and anaphylaxis have been reported with TRIKAFTA in the postmarketing setting. Initiate appropriate therapy in the event of a hypersensitivity reaction. (5.2)
- Use with CYP3A inducers: Concomitant use with strong CYP3A inducers (e.g., rifampin, St. John’s wort) significantly decrease ivacaftor exposure and are expected to decrease elexacaftor and tezacaftor exposure, which may reduce TRIKAFTA efficacy. Therefore, co-administration is not recommended. (5.3, 7.1, 12.3)
- Cataracts: Non-congenital lens opacities/cataracts have been reported in pediatric patients treated with ivacaftor-containing regimens. Baseline and follow-up examinations are recommended in pediatric patients initiating TRIKAFTA treatment. (5.5, 8.4)

5 WARNINGS AND PRECAUTIONS

5.1 Elevated Transaminases and Hepatic Injury
5.2 Hypersensitivity Reactions, Including Anaphylaxis
5.3 Concomitant Use with CYP3A Inducers
5.4 Concomitant Use with CYP3A Inhibitors
5.5 Cataracts

6 ADVERSE REACTIONS

6.1 Clinical Trials Experience
6.2 Postmarketing Experience

7 DRUG INTERACTIONS

7.1 Inducers of CYP3A
7.2 Inhibitors of CYP3A

See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling.

Revised: 08/2023
7.3 Ciprofloxacin
7.4 CYP2C9 Substrates
7.5 Transporters
7.6 Hormonal Contraceptives
8 USE IN SPECIFIC POPULATIONS
  8.1 Pregnancy
  8.2 Lactation
  8.4 Pediatric Use
  8.5 Geriatric Use
  8.6 Renal Impairment
  8.7 Hepatic Impairment
  8.8 Patients with Severe Lung Dysfunction
10 OVERDOSAGE
11 DESCRIPTION

12 CLINICAL PHARMACOLOGY
  12.1 Mechanism of Action
  12.2 Pharmacodynamics
  12.3 Pharmacokinetics
13 NONCLINICAL TOXICOLOGY
  13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility
14 CLINICAL STUDIES
  14.1 Trial 1
  14.2 Trial 2
16 HOW SUPPLIED/STORAGE AND HANDLING
17 PATIENT COUNSELING INFORMATION
*Sections or subsections omitted from the full prescribing information are not listed.
1 Indications and Usage

TRIKAFTA is indicated for the treatment of cystic fibrosis (CF) in patients aged 2 years and older who have at least one F508del mutation in the cystic fibrosis transmembrane conductance regulator (CFTR) gene or a mutation in the CFTR gene that is responsive based on in vitro data [see Clinical Pharmacology (12.1)]. If the patient’s genotype is unknown, an FDA-cleared CF mutation test should be used to confirm the presence of at least one F508del mutation or a mutation that is responsive based on in vitro data.

2 Dosage and Administration

2.1 Recommended Dosage in Adults and Pediatric Patients Aged 2 Years and Older

Recommended dosage for adult and pediatric patients aged 2 years and older is provided in Table 1. The morning and the evening dose should be taken approximately 12 hours apart. TRIKAFTA is for oral use.

Table 1: Recommended Dosage of TRIKAFTA for Adult and Pediatric Patients Aged 2 Years and Older

<table>
<thead>
<tr>
<th>Age</th>
<th>Weight</th>
<th>Morning Dose</th>
<th>Evening Dose</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 to less than 6 years</td>
<td>Less than 14 kg</td>
<td>One packet (containing elexacaftor 80 mg/tezacaftor 40 mg/ivacaftor 60 mg) oral granules</td>
<td>One packet (containing ivacaftor 59.5 mg) oral granules</td>
</tr>
<tr>
<td></td>
<td>14 kg or more</td>
<td>One packet (containing elexacaftor 100 mg/tezacaftor 50 mg/ivacaftor 75 mg) oral granules</td>
<td>One packet (containing ivacaftor 75 mg) oral granules</td>
</tr>
<tr>
<td>6 to less than 12 years</td>
<td>Less than 30 kg</td>
<td>Two tablets of elexacaftor 50 mg/tezacaftor 25 mg/ivacaftor 37.5 mg (total dose of elexacaftor 100 mg/tezacaftor 50 mg/ivacaftor 75 mg)</td>
<td>One tablet of ivacaftor 75 mg</td>
</tr>
<tr>
<td></td>
<td>30 kg or more</td>
<td>Two tablets of elexacaftor 100 mg/tezacaftor 50 mg/ivacaftor 75 mg (total dose of elexacaftor 200 mg/tezacaftor 100 mg/ivacaftor 150 mg)</td>
<td>One tablet of ivacaftor 150 mg</td>
</tr>
<tr>
<td>12 years and older</td>
<td>Two tablets of elexacaftor 100 mg/tezacaftor 50 mg/ivacaftor 75 mg (total dose of elexacaftor 200 mg/tezacaftor 100 mg/ivacaftor 150 mg)</td>
<td>One tablet of ivacaftor 150 mg</td>
<td></td>
</tr>
</tbody>
</table>

2.2 Recommended Dosage for Patients with Hepatic Impairment

- **Mild Hepatic Impairment (Child-Pugh Class A):** No dose adjustment is recommended [see Use in Specific Populations (8.7) and Clinical Pharmacology (12.3)]. See Table 1 for recommended dosage of TRIKAFTA. Liver function tests should be closely monitored [see Warnings and Precautions (5.1) and Adverse Reactions (6)].

- **Moderate Hepatic Impairment (Child-Pugh Class B):** Treatment is not recommended. Use of TRIKAFTA in patients with moderate hepatic impairment should only be considered when there is a clear medical need, and the benefit exceeds the risk. If used, TRIKAFTA should be used with caution at a reduced dose (see Table 2) [see Use in Specific Populations (8.7) and Clinical Pharmacology (12.3)]. Liver function tests should be closely monitored [see Warnings and Precautions (5.1) and Adverse Reactions (6)]. Recommended dosage for patients with moderate hepatic impairment (Child-Pugh Class B) is provided in Table 2.

Table 2: Recommended Dosage of TRIKAFTA, if used, in Patients with Moderate Hepatic Impairment (Child-Pugh Class B)

<table>
<thead>
<tr>
<th>Age</th>
<th>Weight</th>
<th>Morning Dose</th>
<th>Evening Dose</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 to less than 6 years</td>
<td>Less than 14 kg</td>
<td>Weekly dosing schedule as follows:</td>
<td>No evening dose of ivacaftor oral granules.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Days 1-3: One packet (containing elexacaftor 80 mg/tezacaftor 40 mg/ivacaftor 60 mg) oral granules each day</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Day 4: no dose</td>
<td></td>
</tr>
<tr>
<td></td>
<td>14 kg or more</td>
<td>• Days 5-6: One packet (containing elexacaftor 80 mg/tezacaftor 40 mg/ivacaftor 60 mg) oral granules each day</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Day 7: no dose</td>
<td></td>
</tr>
<tr>
<td>6 years to less than 12 years</td>
<td>Less than 30 kg</td>
<td>Weekly dosing schedule as follows:</td>
<td>No evening dose of ivacaftor oral granules.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Days 1-3: One packet (containing elexacaftor 100 mg/tezacaftor 50 mg/ivacaftor 75 mg) oral granules each day</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Day 4: no dose</td>
<td></td>
</tr>
<tr>
<td></td>
<td>30 kg or more</td>
<td>• Days 5-6: One packet (containing elexacaftor 100 mg/tezacaftor 50 mg/ivacaftor 75 mg) oral granules each day</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Day 7: no dose</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Alternating daily dosing schedule as follows:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Day 1: Two tablets of elexacaftor 50 mg/tezacaftor 25 mg/ivacaftor 37.5 mg (total dose of elexacaftor 100 mg/tezacaftor 50 mg/ivacaftor 75 mg)</td>
<td>No evening ivacaftor tablet dose.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Day 2: One tablet of elexacaftor 50 mg/tezacaftor 25 mg/ivacaftor 37.5 mg</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3
Alternating daily dosing schedule as follows:

- Day 1: Two tablets of elexacaftor 100 mg/tezacaftor 50 mg/ivacaftor 75 mg (total dose of elexacaftor 200 mg/tezacaftor 100 mg/ivacaftor 150 mg)
- Day 2: One tablet elexacaftor 100 mg/tezacaftor 50 mg/ivacaftor 75 mg

No evening ivacaftor tablet dose.

Severe Hepatic Impairment (Child-Pugh Class C): Should not be used. TRIKAFTA has not been studied in patients with severe hepatic impairment (Child-Pugh Class C), but the exposure is expected to be higher than in patients with moderate hepatic impairment. [see Warnings and Precautions (5.1), Adverse Reactions (6), Use in Specific Populations (8.7) and Clinical Pharmacology (12.3)].

### 2.3 Dosage Modification for Patients Taking Drugs that are CYP3A Inhibitors

Table 3 describes the recommended dosage modification for TRIKAFTA when co-administered with strong (e.g., ketoconazole, itraconazole, posaconazole, voriconazole, telithromycin, and clarithromycin) or moderate (e.g., fluconazole, erythromycin) CYP3A inhibitors. Avoid food or drink containing grapefruit during TRIKAFTA treatment [see Warnings and Precautions (5.4), Drug Interactions (7.2) and Clinical Pharmacology (12.3)].

<table>
<thead>
<tr>
<th>Age</th>
<th>Weight</th>
<th>Moderate CYP3A Inhibitors</th>
<th>Strong CYP3A Inhibitors</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 to less than 6 years</td>
<td>Less than 14 kg</td>
<td>Alternating daily dosing schedule is as follows:</td>
<td>One packet (containing elexacaftor 80 mg/tezacaftor 40 mg/ivacaftor 60 mg) in the morning twice a week, approximately 3 to 4 days apart.</td>
</tr>
<tr>
<td></td>
<td>14 kg or more</td>
<td>Alternating daily dosing schedule is as follows:</td>
<td>One packet (containing elexacaftor 100 mg/tezacaftor 50 mg/ivacaftor 75 mg in the morning twice a week, approximately 3 to 4 days apart.</td>
</tr>
<tr>
<td>6 years and older</td>
<td>Less than 30 kg</td>
<td>Alternating daily dosing schedule is as follows:</td>
<td>Two tablets of elexacaftor 50 mg/tezacaftor 25 mg/ivacaftor 37.5 mg (total dose of elexacaftor 100 mg/tezacaftor 50 mg/ivacaftor 75 mg) in the morning, approximately 3 to 4 days apart.</td>
</tr>
<tr>
<td></td>
<td>30 kg or more</td>
<td>Alternating daily dosing schedule is as follows:</td>
<td>Two tablets elexacaftor 100 mg/tezacaftor 50 mg/ivacaftor 75 mg (total dose of elexacaftor 200 mg/tezacaftor 100 mg/ivacaftor 150 mg) in the morning, approximately 3 to 4 days apart.</td>
</tr>
<tr>
<td>12 years and older</td>
<td></td>
<td>Alternating daily dosing schedule is as follows:</td>
<td>Two tablets elexacaftor 100 mg/tezacaftor 50 mg/ivacaftor 75 mg (total dose of elexacaftor 200 mg/tezacaftor 100 mg/ivacaftor 150 mg) in the morning, approximately 3 to 4 days apart.</td>
</tr>
</tbody>
</table>

### 2.4 Recommendations Regarding Missed Dose(s)

If 6 hours or less have passed since the missed morning or evening dose, the patient should take the missed dose as soon as possible and continue on the original schedule.

If more than 6 hours have passed since:
- the missed morning dose, the patient should take the missed dose as soon as possible and should not take the evening dose. The next scheduled morning dose should be taken at the usual time.
- the missed evening dose, the patient should not take the missed dose. The next scheduled morning dose should be taken at the usual time.
Morning and evening doses should not be taken at the same time.

2.5 Administration Information
Administer TRIKAFTA tablets or oral granules with fat-containing food. Examples of meals or snacks that contain fat are those prepared with butter or oils or those containing eggs, peanut butter, cheeses, nuts, whole milk, or meats [see Clinical Pharmacology (12.3)].

Instructions for Administration of Tablets
For oral use and swallow TRIKAFTA tablets whole.

Instructions for Administration of Oral Granules
Administer each dose of TRIKAFTA oral granules immediately before or after ingestion of fat containing food. Mix entire contents of each packet of oral granules with one teaspoon (5 mL) of age-appropriate soft food or liquid that is at or below room temperature. Some examples of soft food or liquids include pureed fruits or vegetables, yogurt, applesauce, water, milk, or juice. Once mixed, the product should be consumed completely within one hour.

3 DOSAGE FORMS AND STRENGTHS

Tablets:
Fixed-dose combination containing elexacaftor 50 mg, tezacaftor 25 mg, and ivacaftor 37.5 mg co-packaged with ivacaftor 75 mg:
- Eluxacaftor, tezacaftor and ivacaftor tablets are light orange, capsule-shaped and debossed with “T50” on one side and plain on the other
- Ivacaftor tablets are light blue, capsule-shaped, and printed with “V 75” in black ink on one side and plain on the other

Fixed-dose combination containing eluxacaftor 100 mg, tezacaftor 50 mg, and ivacaftor 75 mg co-packaged with ivacaftor 150 mg:
- Eluxacaftor, tezacaftor and ivacaftor tablets are orange, capsule-shaped and debossed with “T100” on one side and plain on the other
- Ivacaftor tablets are light blue, capsule-shaped, and printed with “V 150” in black ink on one side and plain on the other

Oral Granules:
Fixed-dose combination oral granules containing eluxacaftor 100 mg, tezacaftor 50 mg, and ivacaftor 75 mg co-packaged with ivacaftor 75 mg oral granules:
- Eluxacaftor, tezacaftor, and ivacaftor oral granules are white to off-white, sweetened, unflavored granules approximately 2 mm in diameter contained in a white and orange unit-dose packet
- Ivacaftor oral granules are white to off-white, sweetened, unflavored granules approximately 2 mm in diameter contained in a white and pink unit-dose packet

Fixed-dose combination oral granules containing eluxacaftor 80 mg, tezacaftor 40 mg, ivacaftor 60 mg co-packaged with ivacaftor 59.5 mg oral granules:
- Eluxacaftor, tezacaftor, and ivacaftor oral granules are white to off-white, sweetened, unflavored granules approximately 2 mm in diameter contained in a white and blue unit-dose packet
- Ivacaftor oral granules are white to off-white, sweetened, unflavored granules approximately 2 mm in diameter contained in a white and green unit-dose packet

4 CONTRAINDICATIONS
None.

5 WARNINGS AND PRECAUTIONS

5.1 Elevated Transaminases and Hepatic Injury
Liver failure leading to transplantation has been reported in a patient with cirrhosis and portal hypertension while receiving TRIKAFTA. Avoid use of TRIKAFTA in patients with pre-existing advanced liver disease (e.g., as evidenced by cirrhosis, portal hypertension, ascites, hepatic encephalopathy) unless the benefits are expected to outweigh the risks. If used in these patients, they should be closely monitored after the initiation of treatment [see Dosage and Administration (2.2), Adverse Reactions (6), Use in Specific Populations (8.7) and Clinical Pharmacology (12.3)].

Isolated elevations of transaminases or bilirubin have been observed in patients with CF treated with TRIKAFTA. In some instances, transaminase elevations have been associated with concomitant elevations in total bilirubin and/or international normalized ratio (INR) and have resulted in patients being hospitalized for intervention, including in patients without a history of pre-existing liver disease.

Assessments of liver function tests (ALT, AST, and bilirubin) are recommended for all patients prior to initiating TRIKAFTA, every 3 months during the first year of treatment, and annually thereafter. In the event of significant elevations in liver function tests, e.g., ALT or AST >5 x the upper limit of normal (ULN) or ALT or AST >3 x ULN with bilirubin >2 x ULN, dosing should be interrupted, and laboratory tests closely followed until the abnormalities resolve. Following the resolution of liver function test elevations, consider the benefits and risks of resuming treatment. For patients with a history of hepatobiliary disease or liver function test elevations, more frequent monitoring should be considered [see Dosage and Administration (2.2), Adverse Reactions (6), Use in Specific Populations (8.7) and Clinical Pharmacology (12.3)].

5.2 Hypersensitivity Reactions, Including Anaphylaxis
Hypersensitivity reactions, including cases of angioedema and anaphylaxis, have been reported in the postmarketing setting [see Adverse Reactions (6.2)]. If signs or symptoms of serious hypersensitivity reactions develop during treatment, discontinue TRIKAFTA and institute appropriate therapy. Consider the benefits and risks for the individual patient to determine whether to resume treatment with TRIKAFTA.

5.3 Concomitant Use with CYP3A Inducers
Exposure to ivacaftor is significantly decreased and exposure to eluxacaftor and tezacaftor are expected to decrease by the concomitant use of strong CYP3A inducers, which may reduce the therapeutic effectiveness of TRIKAFTA. Therefore, co-administration with strong CYP3A inducers is not recommended [see Drug Interactions (7.1) and Clinical Pharmacology (12.3)].

5.4 Concomitant Use with CYP3A Inhibitors
Exposure to eluxacaftor, tezacaftor and ivacaftor are increased when co-administered with strong or moderate CYP3A inhibitors. Therefore, the dose of TRIKAFTA should be reduced when used concomitantly with moderate or strong CYP3A inhibitors [see Dosage and Administration (2.3), Drug Interactions (7.2) and Clinical Pharmacology (12.3)].
5.5 Cataracts
Cases of non-congenital lens opacities have been reported in pediatric patients treated with ivacaftor-containing regimens. Although other risk factors were present in some cases (such as corticosteroid use, exposure to radiation), a possible risk attributable to treatment with ivacaftor cannot be excluded. Baseline and follow-up ophthalmological examinations are recommended in pediatric patients initiating treatment with TRIKAFTA [see Use in Specific Populations (8.4)].

6 ADVERSE REACTIONS
The following clinically significant adverse reactions are discussed in greater detail in other sections of the labeling:
- Elevated Transaminases and Hepatic Injury [see Warnings and Precautions (5.1)]
- Hypersensitivity Reactions, Including Anaphylaxis [see Warnings and Precautions (5.2)]
- Cataracts [see Warnings and Precautions (5.5)]

6.1 Clinical Trials Experience
Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in clinical practice.

The safety profile of TRIKAFTA is based on data from 510 CF patients aged 12 years and older in two double-blind, controlled trials of 24 weeks and 4 weeks treatment duration (Trials 1 and 2). Eligible patients were also able to participate in an open-label extension safety study (up to 96 weeks of TRIKAFTA). In the two controlled trials, a total of 257 patients aged 12 years and older received at least one dose of TRIKAFTA.

In addition, the following clinical trials have also been conducted [see Use in Specific Populations (8.4) and Clinical Pharmacology (12.3)]:
- a 24-week, open-label trial in 66 patients with CF aged 6 to less than 12 years who were either homozygous for the F508del mutation or heterozygous for the F508del mutation and a mutation on the second allele that results in either no CFTR protein or a CFTR protein that is not responsive to ivacaftor and tezacaftor/ivacaftor (Trial 3).
- a 24-week, open-label trial in 75 patients with CF aged 2 to less than 6 years. Patients who had at least one F508del mutation or a mutation known to be responsive to TRIKAFTA were eligible for the study (Trial 4).

In Trial 1, the proportion of patients who discontinued study drug prematurely due to adverse events was 1% for TRIKAFTA-treated patients and 0% for placebo-treated patients.

In Trial 1, serious adverse reactions that occurred more frequently in TRIKAFTA-treated patients compared to placebo were rash (1% vs <1%) and influenza (1% vs 0%). There were no deaths in Trials 1, 2, 3 and 4.

Table 4 shows adverse reactions occurring in ≥5% of TRIKAFTA-treated patients and higher than placebo by ≥1% in the 24-week, placebo-controlled, parallel-group trial (Trial 1).

<table>
<thead>
<tr>
<th>Table 4: Adverse Drug Reactions in ≥5% of TRIKAFTA-Treated Patients and Higher than Placebo by ≥1% in Trial 1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Adverse Drug Reactions (Preferred Term)</strong></td>
</tr>
<tr>
<td>---------------------------------------------------------------</td>
</tr>
<tr>
<td>Headache</td>
</tr>
<tr>
<td>Upper respiratory tract infectiona</td>
</tr>
<tr>
<td>Abdominal painb</td>
</tr>
<tr>
<td>Diarrhea</td>
</tr>
<tr>
<td>Rashc</td>
</tr>
<tr>
<td>Alanine aminotransferase increased</td>
</tr>
<tr>
<td>Nasal congestion</td>
</tr>
<tr>
<td>Blood creatine phosphokinase increased</td>
</tr>
<tr>
<td>Aspartate aminotransferase increased</td>
</tr>
<tr>
<td>Rhinorrhea</td>
</tr>
<tr>
<td>Influenza</td>
</tr>
<tr>
<td>Sinusitis</td>
</tr>
<tr>
<td>Blood bilirubin increased</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>a Includes upper respiratory tract infection and viral upper respiratory tract infection</td>
</tr>
<tr>
<td>b Includes abdominal pain, abdominal pain upper, abdominal pain lower</td>
</tr>
<tr>
<td>c Includes rash, rash generalized, rash erythematous, rash macular, rash pruritic</td>
</tr>
</tbody>
</table>

Additional adverse reactions that occurred in TRIKAFTA-treated patients at a frequency of 2% to <5% and higher than placebo by ≥1% include the following: Flatulence, abdominal distension, conjunctivitis, pharyngitis, respiratory tract infection, tonsillitis, urinary tract infection, c-reactive protein increased, hypoglycemia, dizziness, dysmenorrhea, acne, eczema and pruritus.

The safety profile for the CF patients enrolled in Trials 2, 3, and 4 was similar to that observed in Trial 1.

**Rash Events**
In Trial 1, the overall incidence of rash events was 10% in TRIKAFTA-treated and 5% in placebo-treated patients (see Table 4). The incidence of rash events was higher in female TRIKAFTA-treated patients (16%) than in male TRIKAFTA-treated patients (5%).

Hormonal contraceptives may play a role in the occurrence of rash. For patients taking hormonal contraceptives who develop rash, consider interrupting TRIKAFTA and hormonal contraceptives. Following the resolution of rash, consider resuming TRIKAFTA without the hormonal contraceptives. If rash does not recur, resumption of hormonal contraceptives can be considered.
Laboratory and Vital Sign Abnormalities
Liver Function Test Elevations
In Trial 1, the incidence of maximum transaminase (ALT or AST) >8, >5, or >3 x ULN was 1%, 2%, and 8% in TRIKAFTA-treated patients and 1%, 1%, and 5% in placebo-treated patients. The incidence of adverse reactions of transaminase elevations (AST and/or ALT) was 11% in TRIKAFTA-treated patients and 4% in placebo-treated patients.

In Trial 1, the incidence of maximum total bilirubin elevation >2 x ULN was 4% in TRIKAFTA-treated patients and <1% in placebo-treated patients. Maximum indirect and direct bilirubin elevations >1.5 x ULN occurred in 11% and 3% of TRIKAFTA-treated patients, respectively. No TRIKAFTA-treated patients developed maximum direct bilirubin elevation >2 x ULN.

During Trial 3, in patients aged 6 to less than 12 years, the incidence of maximum transaminase (ALT or AST) >8, >5, and >3 x ULN were 0%, 1.5%, and 10.6%, respectively. No TRIKAFTA-treated patients had transaminase elevation >3 x ULN associated with elevated total bilirubin >2 x ULN or discontinued treatment due to transaminase elevations.

During Trial 4 in patients aged 2 to less than 6 years, the incidence of maximum transaminase (ALT or AST) >8, >5, and >3 x ULN were 1.3%, 2.7%, and 8.0% respectively. No TRIKAFTA-treated patients had transaminase elevation >3 x ULN associated with elevated total bilirubin >2 x ULN. One patient required treatment interruption during Trial 4 and later discontinued TRIKAFTA during the open label extension due to transaminase elevations.

Increased Creatine Phosphokinase
In Trial 1, the incidence of maximum creatine phosphokinase elevation >5 x ULN was 10% in TRIKAFTA-treated and 5% in placebo-treated patients. Among the TRIKAFTA-treated patients with creatine phosphokinase elevation >5 x ULN, 14% (3/21) required treatment interruption and none discontinued treatment.

Increased Blood Pressure
In Trial 1, the maximum increase from baseline in mean systolic and diastolic blood pressure was 3.5 mmHg and 1.9 mmHg, respectively for TRIKAFTA-treated patients (baseline: 113 mmHg systolic and 69 mmHg diastolic) and 0.9 mmHg and 0.5 mmHg, respectively for placebo-treated patients (baseline: 114 mmHg systolic and 70 mmHg diastolic).

The proportion of patients who had systolic blood pressure >140 mmHg and 10 mmHg increase from baseline on at least two occasions was 4% in TRIKAFTA-treated patients and 1% in placebo-treated patients. The proportion of patients who had diastolic blood pressure >90 mmHg and 5 mmHg increase from baseline on at least two occasions was 1% in TRIKAFTA-treated patients and 2% in placebo-treated patients.

With the exception of sex differences in rash, the safety profile of TRIKAFTA was generally similar across all subgroups of patients, including analysis by age, sex, baseline percent predicted FEV1 (ppFEV1) and geographic regions.

6.2 Postmarketing Experience
The following adverse reactions have been identified during post approval use of TRIKAFTA. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Hepatobiliary: Liver failure leading to transplantation in a patient with pre-existing cirrhosis and portal hypertension. Liver injury characterized by concomitant transaminase (ALT and AST) and total bilirubin elevations [see Warnings and Precautions (5.1)].

Immune System Disorders: anaphylaxis, angioedema

7 DRUG INTERACTIONS
Potential for other drugs to affect elexacaftor/tezacaftor/ivacaftor

7.1 Inducers of CYP3A
Elexacaftor, tezacaftor and ivacaftor are substrates of CYP3A (ivacaftor is a sensitive substrate of CYP3A). Concomitant use of CYP3A inducers may result in reduced exposures and thus reduced TRIKAFTA efficacy. Co-administration of ivacaftor with rifampin, a strong CYP3A inducer, significantly decreased ivacaftor area under the curve (AUC) by 89%. Elexacaftor and tezacaftor exposures are expected to decrease during co-administration with strong CYP3A inducers. Therefore, co-administration of TRIKAFTA with strong CYP3A inducers is not recommended [see Warnings and Precautions (5.3) and Clinical Pharmacology (12.3)].

Examples of strong CYP3A inducers include:
- rifampin, rifabutin, phenobarbital, carbamazepine, phenytoin and St. John’s wort (Hypericum perforatum)

7.2 Inhibitors of CYP3A
Co-administration with itraconazole, a strong CYP3A inhibitor, increased elexacaftor AUC by 2.8-fold and tezacaftor AUC by 4.0- to 4.5-fold. When co-administered with itraconazole and ketoconazole, ivacaftor AUC increased by 15.6-fold and 8.5-fold, respectively. The dosage of TRIKAFTA should be reduced when co-administered with strong CYP3A inhibitors [see Dosage and Administration (2.3), Warnings and Precautions (5.4) and Clinical Pharmacology (12.3)].

Examples of strong CYP3A inhibitors include:
- ketoconazole, itraconazole, posaconazole and voriconazole
- telithromycin and clarithromycin

Simulations indicated that co-administration with moderate CYP3A inhibitors may increase elexacaftor and tezacaftor AUC by approximately 1.9- to 2.3-fold and 2.1-fold, respectively. Co-administration of fluconazole increased ivacaftor AUC by 2.9-fold. The dosage of TRIKAFTA should be reduced when co-administered with moderate CYP3A inhibitors [see Dosage and Administration (2.3), Warnings and Precautions (5.4) and Clinical Pharmacology (12.3)].

Examples of moderate CYP3A inhibitors include:
- fluconazole
- erythromycin
Co-administration of TRIKAFTA with grapefruit juice, which contains one or more components that moderately inhibit CYP3A, may increase exposure of elexacaftor, tezacaftor and ivacaftor; therefore, food or drink containing grapefruit should be avoided during treatment with TRIKAFTA [see Dosage and Administration (2.3)].

7.3 Ciprofloxacin
Ciprofloxacin had no clinically relevant effect on the exposure of tezacaftor or ivacaftor and is not expected to affect the exposure of elexacaftor. Therefore, no dose adjustment is necessary during concomitant administration of TRIKAFTA with ciprofloxacin [see Clinical Pharmacology (12.3)].

Potential for elexacaftor/tezacaftor/ivacaftor to affect other drugs

7.4 CYP2C9 Substrates
Ivacaftor may inhibit CYP2C9; therefore, monitoring of the international normalized ratio (INR) during co-administration of TRIKAFTA with warfarin is recommended. Other medicinal products for which exposure may be increased by TRIKAFTA include glimepiride and glipizide; these medicinal products should be used with caution [see Clinical Pharmacology (12.3)].

7.5 Transporters
Co-administration of ivacaftor or tezacaftor/ivacaftor with digoxin, a sensitive P-gp substrate, increased digoxin AUC by 1.3-fold, consistent with weak inhibition of P-gp by ivacaftor. Administration of TRIKAFTA may increase systemic exposure of medicinal products that are sensitive substrates of P-gp, which may increase or prolong their therapeutic effect and adverse reactions. When used concomitantly with digoxin or other substrates of P-gp with a narrow therapeutic index such as cyclosporine, everolimus, sirolimus and tacrolimus, caution and appropriate monitoring should be used [see Clinical Pharmacology (12.3)].

Elexacaftor and M23-ELX inhibit uptake by OATP1B1 and OATP1B3 in vitro. Co-administration of TRIKAFTA may increase exposures of medicinal products that are substrates of these transporters, such as statins, glyburide, nateglinide and repaglinide. When used concomitantly with substrates of OATP1B1 or OATP1B3, caution and appropriate monitoring should be used [see Clinical Pharmacology (12.3)]. Bilirubin is an OATP1B1 and OATP1B3 substrate.

7.6 Hormonal Contraceptives
TRIKAFTA has been studied with ethinyl estradiol/levonorgestrel and was found to have no clinically relevant effect on the exposures of the oral contraceptive. TRIKAFTA is not expected to have an impact on the efficacy of oral contraceptives.

8 USE IN SPECIFIC POPULATIONS
8.1 Pregnancy

Risk Summary
There are limited and incomplete human data from clinical trials on the use of TRIKAFTA or its individual components, elexacaftor, tezacaftor and ivacaftor, in pregnant women to inform a drug-associated risk. Although there are no animal reproduction studies with the concomitant administration of elexacaftor, tezacaftor and ivacaftor, separate infant and developmental studies were conducted with each active component of TRIKAFTA in pregnant rats and rabbits. In animal embryo fetal development (EFD) studies oral administration of elexacaftor to pregnant rats and rabbits during organogenesis demonstrated no teratogenicity or adverse developmental effects at doses that produced maternal exposures up to approximately 2 times the exposure at the maximum recommended human dose (MRHD) in rats and 4 times the MRHD in rabbits [based on summed AUCs of elexacaftor and its metabolite (for rat) and AUC of elexacaftor (for rabbit)]. Oral administration of tezacaftor to pregnant rats and rabbits during organogenesis demonstrated no teratogenicity or adverse developmental effects at doses that produced maternal exposures up to approximately 3 times the exposure at the MRHD in rats and 0.2 times the MRHD in rabbits [based on summed AUCs of tezacaftor and M1-TEZ]. Oral administration of ivacaftor to pregnant rats and rabbits during organogenesis demonstrated no teratogenicity or adverse developmental effects at doses that produced maternal exposures up to approximately 5 and 14 times the exposure at the MRHD, respectively [based on summed AUCs of ivacaftor and its metabolite(s) and AUC of ivacaftor (for rabbit)]. No adverse developmental effects were observed after oral administration of elexacaftor, tezacaftor or ivacaftor to pregnant rats from the period of organogenesis through lactation at doses that produced maternal exposures approximately 1 time, approximately 1 time and 3 times the exposures at the MRHD, respectively [based on summed AUCs of parent and metabolite(s)] [see Data].

The background risk of major birth defects and miscarriage for the indicated population is unknown. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively.

Data

Animal Data

Eluxacaftor
In an EFD study in pregnant rats dosed during the period of organogenesis from gestation Days 6-17, eluxacaftor was not teratogenic and did not affect fetal survival at exposures up to 9 times the MRHD (based on summed AUC for eluxacaftor and its metabolite at maternal doses up to 40 mg/kg/day). Lower mean fetal body weights were observed at doses ≥25 mg/kg/day that produced maternal exposures ≥4 times the MRHD. In an EFD study in pregnant rabbits dosed during the period of organogenesis from gestation Days 7-20, eluxacaftor was not teratogenic at exposures up to 4 times the MRHD (based on AUC of eluxacaftor at maternal doses up to 125 mg/kg/day). In a pre- and postnatal development (PPND) study in pregnant rats dosed from gestation Day 6 through lactation Day 18, eluxacaftor did not cause developmental defects in pups at maternal doses up to 10 mg/kg/day (approximately 1 time the MRHD based on summed AUCs of eluxacaftor and its metabolite). Placental transfer of eluxacaftor was observed in pregnant rats.

Tezacaftor
In an EFD study in pregnant rats dosed during the period of organogenesis from gestation Days 6-17 and in pregnant rabbits dosed during the period of organogenesis from gestation Days 7-20, tezacaftor was not teratogenic and did not affect fetal development or survival at exposures up to 3 and 0.2 times, respectively the MRHD (based on summed AUCs of tezacaftor and M1-TEZ). Lower fetal body weights were observed in rabbits at a maternally toxic dose that produced exposures approximately 1 time the MRHD (based on summed AUCs of tezacaftor and M1-TEZ at a maternal dose of 50 mg/kg/day). In a PPND study in pregnant rats dosed from gestation Day 6 through lactation Day 18, tezacaftor had no adverse developmental effects on pups at an exposure of approximately 1 time the MRHD (based on summed AUCs for tezacaftor and M1-TEZ at a maternal dose of 25 mg/kg/day). Decreased fetal body weights and early developmental delays in pinna detachment, eye opening and righting reflex occurred at a maternally toxic dose (based on maternal weight loss) that produced exposures approximately 1 time the exposure at the MRHD (based on summed AUCs for tezacaftor and M1-TEZ at a maternal oral dose of 50 mg/kg/day). Placental transfer of tezacaftor was observed in pregnant rats.
Lacteal excretion of tezacaftor in rats was demonstrated following a single oral dose (30 mg/kg) of 14C-tezacaftor administered 6 to 10 days postpartum to lactating dams. Exposure of 14C-tezacaftor in milk was approximately 0.4 times the value observed in plasma (based on AUC0-72h).

8.2 Lactation
Risk Summary
There is no information regarding the presence of elexacaftor, tezacaftor, or ivacaftor in human milk, the effects on the breastfed infant, or the effects on milk production. Elexacaftor, tezacaftor, and ivacaftor are excreted into the milk of lactating rats (see Data). The developmental and health benefits of breastfeeding should be considered along with the mother’s clinical need for TRIKAFTA and any potential adverse effects on the breastfed child from TRIKAFTA or from the underlying maternal condition.

Data
Elexacaftor
Lacteal excretion of elexacaftor in rats was demonstrated following a single oral dose (10 mg/kg) of 14C-elexacaftor administered 6 to 10 days postpartum to lactating dams. Exposure of 14C-elexacaftor in milk was approximately 0.4 times the value observed in plasma (based on AUC0-72h).

Tezacaftor
Lacteal excretion of tezacaftor in rats was demonstrated following a single oral dose (10 mg/kg) of 14C-tezacaftor administered 6 to 10 days postpartum to lactating dams. Exposure of 14C-tezacaftor in milk was approximately 3 times higher than in plasma (based on AUC0-72h).

Ivacaftor
Lacteal excretion of ivacaftor in rats was demonstrated following a single oral dose (100 mg/kg) of 14C-ivacaftor administered 9 to 10 days postpartum to lactating dams. Exposure of 14C-ivacaftor in milk was approximately 1.5 times higher than in plasma (based on AUC0-72h).

8.4 Pediatric Use
The safety and effectiveness of TRIKAFTA for the treatment of CF have been established in pediatric patients aged 2 to less than 18 years who have at least one F508del mutation in the CFTR gene or a mutation in the CFTR gene that is responsive based on data. Use of TRIKAFTA for this indication for pediatric patients 12 years of age and older was supported by evidence from two adequate and well-controlled studies (Trials 1 and 2) in CF patients aged 12 years and older [see Adverse Reactions (6.1) and Clinical Studies (14)].

Use of TRIKAFTA for this indication in pediatric patients 2 to less than 12 years of age is based on the following:

- **Trial 1**, 56 pediatric patients aged 12 to less than 18 years who had an F508del mutation on one allele and a mutation on the second allele that results in either no CFTR protein or a CFTR protein that is not responsive to ivacaftor and tezacaftor/ivacaftor [see Adverse Reactions (6) and Clinical Studies (14)].
- **Trial 2**, 16 pediatric patients aged 12 to less than 18 years who were homozygous for the F508del mutation [see Adverse Reactions (6) and Clinical Studies (14)].
- **Trial 3**, 66 pediatric patients aged 6 to less than 12 years who were homozygous for the F508del mutation or heterozygous for the F508del mutation with a mutation on the second allele that results in either no CFTR protein or a CFTR protein that is not responsive to ivacaftor and tezacaftor/ivacaftor [see Adverse Reactions (6) and Clinical Pharmacology (12.3)].
- **Trial 4**, 75 pediatric patients aged 2 to less than 6 years who had at least one F508del mutation or a mutation known to be responsive to TRIKAFTA [see Adverse Reactions (6) and Clinical Pharmacology (12.3)].

The effectiveness of TRIKAFTA in patients aged 2 to less than 12 years was extrapolated from patients aged 12 years and older with support from population pharmacokinetic analyses showing elexacaftor, tezacaftor, and ivacaftor exposure levels in patients aged 2 to less than 12 years within the range of exposures observed in patients aged 12 years and older [see Clinical Pharmacology (12.3)]. Safety of TRIKAFTA in patients aged 6 to less than 12 years was derived from a 24-week, open-label, clinical trial in 66 patients aged 6 to less than 12 years (mean age at baseline 9.3 years) administered either a total dose of elexacaftor 100 mg/tezacaftor 50 mg/ivacaftor 75 mg in the morning and ivacaftor 75 mg in the evening (for patients weighing less than 30 kg) or a total dose of elexacaftor 200 mg/tezacaftor 100 mg/ivacaftor 150 mg in the morning and ivacaftor 150 mg in the evening (for patients weighing 30 kg or more) (Trial 3). Safety of TRIKAFTA in patients aged 2 to less than 6 years was derived from a 24-week, open-label, clinical trial in 75 patients aged 2 to less than 6 years (mean age at baseline 4.1 years) administered either a total dose of elexacaftor 80 mg/tezacaftor 40 mg/ivacaftor 60 mg in the morning and ivacaftor 59.5 mg in the evening (for patients weighing 10 kg to less than 14 kg) or a total dose of elexacaftor 100 mg/tezacaftor 50 mg/ivacaftor 75 mg in the morning and ivacaftor 75 mg in the evening (for patients weighing 14 kg or more) (Trial 4). The safety profile of patients in these trials was similar to that observed in Trial 1 [see Adverse Reactions (6)].

The safety and effectiveness of TRIKAFTA in patients with CF younger than 2 years of age have not been established.

Juvenile Animal Toxicity Data
Findings of cataracts were observed in juvenile rats dosed from postnatal Day 7 through 35 with ivacaftor dose levels of 10 mg/kg/day and higher (0.21 times the MRHD based on systemic exposure of ivacaftor and its metabolites). This finding has not been observed in older animals [see Warnings and Precautions (5.3)].

Studies were conducted with tezacaftor in juvenile rats starting at postnatal day (PND) 21 and ranging up to PNDs 35 to 49. Findings of convulsions and death were observed in juvenile rats that received a tezacaftor dose level of 100 mg/kg/day (approximately equivalent to 1.9 times the MRHD based on summed AUCs of tezacaftor and its metabolite, M1-TEZ). A no effect dose level was identified at 30 mg/kg/day (approximately equivalent to 0.8 times the MRHD based on summed AUCs of tezacaftor and its metabolite, M1-TEZ). Findings were dose related and generally more severe when dosing with tezacaftor was initiated earlier in the postnatal period (PND 7, which would be approximately equivalent to a human neonate). Tezacaftor and its metabolite, M1-TEZ, are substrates for P-glycoprotein. Lower brain levels of P-glycoprotein activity in younger rats resulted in higher brain levels of tezacaftor and M1-TEZ. These findings are not relevant for the indicated pediatric population, 2 years of age and older, for whom levels of P-glycoprotein activity are equivalent to levels observed in adults.
8.5 Geriatric Use
Clinical studies of TRIKAFTA did not include any patients aged 65 years and older.

8.6 Renal Impairment
TRIKAFTA has not been studied in patients with severe renal impairment or end-stage renal disease. No dosage adjustment is recommended in patients with mild (eGFR 60 to <90 mL/min/1.73 m²) or moderate (eGFR 30 to <60 mL/min/1.73 m²) renal impairment. Use with caution in patients with severe (eGFR <30 mL/min/1.73 m²) renal impairment or end-stage renal disease [see Clinical Pharmacology (12.3)].

8.7 Hepatic Impairment
• Mild Hepatic Impairment (Child-Pugh Class A): No dose modification is recommended. Liver function tests should be closely monitored.

• Moderate Hepatic Impairment (Child-Pugh Class B): Treatment is not recommended. Use of TRIKAFTA in patients with moderate hepatic impairment should only be considered when there is a clear medical need, and the benefit exceeds the risk. If used in patients with moderate hepatic impairment, TRIKAFTA should be used at a reduced dose [see Dosage and Administration (2.2)]. Liver function tests should be closely monitored.

In a clinical study of 11 subjects with moderate hepatic impairment, one subject developed total and direct bilirubin elevations >2 x ULN, and a second subject developed direct bilirubin elevation >4.5 x ULN [see Clinical Pharmacology (12.3)].

• Severe Hepatic Impairment (Child-Pugh Class C): Should not be used. TRIKAFTA has not been studied in patients with severe hepatic impairment (Child-Pugh Class C), but the exposure is expected to be higher than in patients with moderate hepatic impairment [see Dosage and Administration (2.2), Warnings and Precautions (5.1), Adverse Reactions (6) and Clinical Pharmacology (12.3)].

8.8 Patients with Severe Lung Dysfunction
Trial 1 included a total of 18 patients receiving TRIKAFTA with ppFEV₁ <40 at baseline. The safety and efficacy in this subgroup were comparable to those observed in the overall population.

10 OVERDOSAGE
No specific antidote is available for overdosage with TRIKAFTA. Treatment of overdosage consists of general supportive measures including monitoring of vital signs and observation of the clinical status of the patient.

11 DESCRIPTION
TRIKAFTA is a co-package of elexacaftor, tezacaftor and ivacaftor fixed-dose combination tablets or granules and ivacaftor tablets or granules. Both tablets and granules are for oral administration.

The elexacaftor, tezacaftor and ivacaftor fixed-dose combination tablets are available as: orange, capsule-shaped, film-coated tablet containing 100 mg of elexacaftor, 50 mg of tezacaftor, 75 mg of ivacaftor, or light-orange, capsule-shaped, film-coated tablet containing 50 mg of elexacaftor, 25 mg of tezacaftor, 37.5 mg of ivacaftor. The fixed-dose combination tablet contains the following inactive ingredients: croscarmellose sodium, hypromellose, hypromellose acetate succinate, magnesium stearate, microcrystalline cellulose, and sodium lauryl sulfate. The tablet film coat contains hydroxypropyl cellulose, hypromellose, iron oxide red, iron oxide yellow, t alc, and titanium dioxide.

The ivacaftor tablet is available as a light blue, capsule-shaped, film-coated tablet containing 150 mg or 75 mg of ivacaftor and the following inactive ingredients: colloidal silicon dioxide, croscarmellose sodium, hypromellose acetate succinate, lactose monohydrate, magnesium stearate, microcrystalline cellulose and sodium lauryl sulfate. The tablet film coat contains carnauba wax, FD&C Blue #2, PEG 3350, polyvinyl alcohol, talc, and titanium dioxide. The printing ink contains ammonium hydroxide, iron oxide black, propylene glycol, and shellac.

The elexacaftor, tezacaftor and ivacaftor fixed-dose combination oral granules are white to off-white, sweetened, unflavored granules approximately 2 mm in diameter enclosed in unit-dose packets. Each unit-dose packet contains 100 mg of elexacaftor, 50 mg of tezacaftor, 75 mg of ivacaftor or 80 mg of elexacaftor, 37.5 mg of tezacaftor, 60 mg of ivacaftor and the following inactive ingredients: colloidal silicon dioxide, croscarmellose sodium, hypromellose, hypromellose acetate succinate, lactose monohydrate, magnesium stearate, mannitol, sodium lauryl sulfate, and sucrose.

The ivacaftor oral granules are white to off-white, sweetened, unflavored granules approximately 2 mm in diameter enclosed in unit-dose packets. Each unit-dose packet contains 75 mg or 59.5 mg of ivacaftor and the following inactive ingredients: colloidal silicon dioxide, croscarmellose sodium, hypromellose acetate succinate, lactose monohydrate, magnesium stearate, mannitol, sodium lauryl sulfate, and sucrose.

The active ingredients of TRIKAFTA are described below.

Elexacaftor
Elexacaftor is a white solid that is practically insoluble in water (<1 mg/mL). Its chemical name is N-(1,3-dimethyl-1H-pyrazole-4-sulfonyl)-6-[3-(3,3,3-trifluoro-2,2-dimethylpropoxy)-1H-pyrazol-1-yl]-2-[(5S)-2,2,4-trimethylpyrrolidin-1-yl]pyridine-3-carboxamide. Its molecular formula is C₂₆H₃₄N₇O₄SF₃ and its molecular weight is 597.66. Elexacaftor has the following structural formula:
Tezacaftor
Tezacaftor is a white to off-white solid that is practically insoluble in water (<5 microgram/mL). Its chemical name is 1-(2,2-difluoro-2H-1,3-benzodioxol-5-yl)-N-\{1-[(2R)-2,3-dihydroxypropyl]-6-fluoro-2-(1-hydroxy-2-methylpropan-2-yl)-1H-indol-5-yl\}cyclopropane-1-carboxamide. Its molecular formula is C_{26}H_{27}N_{2}F_{3}O_{6} and its molecular weight is 520.50. Tezacaftor has the following structural formula:

Ivacaftor
Ivacaftor is a white to off-white crystalline solid that is practically insoluble in water (<0.05 microgram/mL). Pharmacologically it is a CFTR potentiator. Its chemical name is N-(2,4-di-tert-butyl-5-hydroxyphenyl)-1,4-dihydro-4-oxoquinoline-3-carboxamide. Its molecular formula is C_{24}H_{28}N_{2}O_{3} and its molecular weight is 392.49. Ivacaftor has the following structural formula:

12 CLINICAL PHARMACOLOGY
12.1 Mechanism of Action
Elexacaftor and tezacaftor bind to different sites on the CFTR protein and have an additive effect in facilitating the cellular processing and trafficking of select mutant forms of CFTR (including F508del-CFTR) to increase the amount of CFTR protein delivered to the cell surface compared to either molecule alone. Ivacaftor potentiates the channel open probability (or gating) of the CFTR protein at the cell surface.

The combined effect of elexacaftor, tezacaftor and ivacaftor is increased quantity and function of CFTR at the cell surface, resulting in increased CFTR activity as measured by CFTR mediated chloride transport.

CFTR Chloride Transport Assay in Fischer Rat Thyroid (FRT) Cells Expressing Mutant CFTR
The chloride transport response of mutant CFTR protein to elexacaftor/tezacaftor/ivacaftor was determined in Ussing chamber electrophysiology studies using a panel of FRT cell lines transfected with individual CFTR mutations. Elexacaftor/tezacaftor/ivacaftor increased chloride transport in FRT cells expressing CFTR mutations that result in CFTR protein being delivered to the cell surface.

The in vitro CFTR chloride transport response threshold was designated as a net increase of at least 10% of normal over baseline because it is predictive or reasonably expected to predict clinical benefit. For individual mutations, the magnitude of the net change over baseline in CFTR-mediated chloride transport in vitro is not correlated with the magnitude of clinical response.

Table 5 lists responsive CFTR mutations based on in vitro data in FRT cells indicating that elexacaftor/tezacaftor/ivacaftor increases chloride transport to at least 10% of normal over baseline.
period in healthy subjects was not prolonged to any clinically relevant extent. At doses up to 2 times the maximum recommended dose of elexacaftor and 3 times the maximum recommended dose of tezacaftor and ivacaftor, the QT/QTc of

In Trial 1 (patients with an F508del mutation on one allele and a mutation on the second allele that results in either no CFTR protein or a CFTR protein that is not responsive to ivacaftor and tezacaftor/ivacaftor), a reduction in sweat chloride was observed from baseline at Week 4 and sustained through the 24-week treatment period (see Clinical Studies (14.1)). In Trial 2 (patients homozygous for the F508del mutation), a reduction in sweat chloride was observed from baseline at Week 4 (see Clinical Studies (14.2)). In Trial 3 (patients aged 6 to less than 12 years who are homozygous for the F508del mutation or heterozygous for the F508del mutation and a mutation on the second allele that results in either no CFTR protein or a CFTR protein that is not responsive to ivacaftor and tezacaftor/ivacaftor), the mean absolute change in sweat chloride from baseline through Week 24 was -60.9 mmol/L (95% CI: -63.7, -58.2). In Trial 4 (patients aged 2 to less than 6 years who had at least one F508del mutation or a mutation known to be responsive to TRIKAFTA, the mean absolute change in sweat chloride from baseline through Week 24 was -57.9 mmol/L (95% CI: -61.3, -54.6).

Cardiac Electrophysiology
At doses up to 2 times the maximum recommended dose of elexacaftor and 3 times the maximum recommended dose of tezacaftor and ivacaftor, the QT/QTc interval in healthy subjects was not prolonged to any clinically relevant extent.

12.3 Pharmacokinetics
The pharmacokinetics of elexacaftor, tezacaftor and ivacaftor are similar between healthy adult subjects and patients with CF. The pharmacokinetic parameters for elexacaftor, tezacaftor and ivacaftor in patients with CF aged 12 years and older are shown in Table 6.

<table>
<thead>
<tr>
<th>General Information</th>
<th>Elexacaftor</th>
<th>Tezacaftor</th>
<th>Ivalcaftor</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AUC (SD), mcg·h/mL</strong></td>
<td>162 (47.5)*</td>
<td>89.3 (23.2)*</td>
<td>11.7 (4.01)*</td>
</tr>
<tr>
<td><strong>C_{max} (SD), mcg/mL</strong></td>
<td>9.2 (2.1)</td>
<td>7.7 (1.7)</td>
<td>1.2 (0.3)</td>
</tr>
<tr>
<td><strong>Time to Steady State, days</strong></td>
<td>Within 7 days</td>
<td>Within 8 days</td>
<td>Within 3-5 days</td>
</tr>
<tr>
<td><strong>Accumulation Ratio</strong></td>
<td>2.2</td>
<td>2.07</td>
<td>2.4</td>
</tr>
<tr>
<td><strong>Absorption</strong></td>
<td><strong>Absolute Bioavailability</strong></td>
<td>80%</td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Median T_{max} (range), hours</strong></td>
<td>6 (4 to 12)</td>
<td>3 (2 to 4)</td>
<td>4 (3 to 6)</td>
</tr>
<tr>
<td><strong>Effect of Food</strong></td>
<td>AUC increases 1.9- to 2.5-fold (moderate-fat meal)</td>
<td>No clinically significant effect</td>
<td>Exposure increases 2.5- to 4-fold</td>
</tr>
<tr>
<td><strong>Distribution</strong></td>
<td>Mean (SD) Apparent Volume of Distribution, L°</td>
<td>53.7 (17.7)</td>
<td>82.0 (22.3)</td>
</tr>
<tr>
<td><strong>Protein Binding</strong></td>
<td>&gt;99% approx</td>
<td>approximately 99%</td>
<td>approximately 99%</td>
</tr>
<tr>
<td><strong>Elimination</strong></td>
<td>Mean (SD) Effective Half-Life, days</td>
<td>27.4 (9.31)</td>
<td>25.1 (4.93)</td>
</tr>
</tbody>
</table>
AUCss in adult patients.

10% higher in Cmax for tezacaftor and a 1.5-fold higher AUC but similar Cmax for ivacaftor compared with healthy subjects matched for demographics.

12 years and older.

(Child-Pugh Class B, score 7-9) had 25% higher AUC and 12% higher Cmax for elexacaftor, 73% higher AUC and 70% higher Cmax for M23-ELX, 36% higher

score 10-15). In a clinical study, following multiple doses of elexacaftor, tezacaftor and ivacaftor for 10 days, subjects with moderately impaired hepatic function

AUC and 24% higher Cmax for combined elexacaftor and M23-ELX, 20% higher AUC but similar Cmax for tezacaftor and 1.5-fold higher AUC and 10% higher Cmax

for ivacaftor compared with healthy subjects matched for demographics.

Specific Populations

Pediatric Patients 2 to Less Than 12 Years of Age

Elexacaftor, tezacaftor and ivacaftor exposures observed in patients aged 2 to less than 12 years as determined using population PK analysis are presented by age group and dose administered in Table 7. Elexacaftor, tezacaftor and ivacaftor exposures in this patient population are within the range observed in patients aged 12 years and older.

Table 7: Mean (SD) Elexacaftor, Tezacaftor and Ivacaftor Exposures Observed at Steady State by Age Group and Dose Administered

<table>
<thead>
<tr>
<th>Age Group</th>
<th>Dose</th>
<th>Elexacaftor AUC0-24h,ss (µg*h/mL)</th>
<th>Tezacaftor AUC0-24h,ss (µg*h/mL)</th>
<th>Ivacaftor AUC0-24h,ss (µg*h/mL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patients aged 2 to less than 6 years</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>years weighing less than 14 kg (N = 16)</td>
<td>elexacaftor 80 mg qd/tezacaftor 40 mg qd/ivacaftor 59.5 mg qPM</td>
<td>128 (24.8)</td>
<td>87.3 (17.3)</td>
<td>11.9 (3.86)</td>
</tr>
<tr>
<td></td>
<td>elexacaftor 100 mg qd/tezacaftor 50 mg qd/ivacaftor 75 mg q12h</td>
<td>138 (47.0)</td>
<td>90.2 (27.9)</td>
<td>13.0 (6.11)</td>
</tr>
<tr>
<td>Patients aged 6 to less than 12 years</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>years weighing less than 30 kg (N = 26)</td>
<td>elexacaftor 100 mg qd/tezacaftor 50 mg qd/ivacaftor 75 mg q12h</td>
<td>116 (39.4)</td>
<td>67.0 (22.3)</td>
<td>9.78 (4.50)</td>
</tr>
<tr>
<td>Patients aged 6 to less than 12 years</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>years weighing 30 kg or more (N = 30)</td>
<td>elexacaftor 200 mg qd/tezacaftor 100 mg qd/ivacaftor 150 mg q12h</td>
<td>195 (59.4)</td>
<td>103 (23.7)</td>
<td>17.5 (4.97)</td>
</tr>
</tbody>
</table>

SD: Standard Deviation; AUC0-24h,ss: area under the concentration versus time curve at steady state.

Pediatric Patients 12 to Less Than 18 Years of Age

The following conclusions about exposures between adults and the pediatric population are based on population pharmacokinetic (PK) analyses. Following oral administration of TRIKAFTA to patients 12 to less than 18 years of age (elexacaftor 200 mg qd/tezacaftor 100 mg qd/ivacaftor 150 mg q12h), the mean (±SD) AUC0-12h,ss was 147 (36.8) mcg·h/mL, 88.8 (21.8) mcg·h/mL and 10.6 (3.55) mcg·h/mL, respectively for elexacaftor, tezacaftor and ivacaftor.

Patients with Renal Impairment

Renal excretion of elexacaftor, tezacaftor and ivacaftor is minimal. Elexacaftor alone or in combination with tezacaftor and ivacaftor has not been studied in subjects with severe (eGFR <30 mL/min/1.73 m²) renal impairment or end-stage renal disease. Based on population PK analyses, the clearance of elexacaftor and tezacaftor was similar in subjects with mild (eGFR 60 to <90 mL/min/1.73 m²) or moderate (eGFR 30 to <60 mL/min/1.73 m²) renal impairment relative to patients with normal renal function [see Use in Specific Populations (8.6)].

Patients with Hepatic Impairment

Elexacaftor alone or in combination with tezacaftor and ivacaftor has not been studied in subjects with severe hepatic impairment (Child-Pugh Class C, score 10-15). In a clinical study, following multiple doses of elexacaftor, tezacaftor and ivacaftor for 10 days, subjects with moderately impaired hepatic function (Child-Pugh Class B, score 7-9) had 25% higher AUC and 12% higher Cmax for elexacaftor, 73% higher AUC and 70% higher Cmax for M23-ELX, 36% higher AUC and 24% higher Cmax for combined elexacaftor and M23-ELX, 20% higher AUC but similar Cmax for tezacaftor and 1.5-fold higher AUC and 10% higher Cmax for ivacaftor compared with healthy subjects matched for demographics [see Dosage and Administration (2.2), Warnings and Precautions (5.1), Adverse Reactions (6) and Use in Specific Populations (8.7)].

Tezacaftor and Ivacaftor

Following multiple doses of tezacaftor and ivacaftor for 10 days, subjects with moderately impaired hepatic function had an approximately 36% higher AUC and a 10% higher in Cmax for tezacaftor and a 1.5-fold higher AUC but similar Cmax for ivacaftor compared with healthy subjects matched for demographics.
Ivacaftor
In a study with ivacaftor alone, subjects with moderately impaired hepatic function had similar ivacaftor Cmax, but an approximately 2.0-fold higher ivacaftor AUC0-∞ compared with healthy subjects matched for demographics.

Male and Female Patients
Based on population PK analysis, the exposures of elexacaftor, tezacaftor and ivacaftor are similar in males and females.

Drug Interaction Studies
Drug interaction studies were performed with elexacaftor, tezacaftor and/or ivacaftor and other drugs likely to be co-administered or drugs commonly used as probes for pharmacokinetic interaction studies [see Drug Interactions (7)].

Potential for Elexacaftor, Tezacaftor and/or Ivacaftor to Affect Other Drugs
Based on in vitro results, elexacaftor and tezacaftor have a low potential to inhibit CYP1A2, CYP2B6, CYP2C8, CYP2C9, CYP2C19, CYP2D6 and CYP3A4, whereas ivacaftor has the potential to inhibit CYP2C8, CYP2C9 and CYP3A. However, clinical studies showed that the combination regimen of tezacaftor/ivacaftor is not an inhibitor of CYP3A and ivacaftor is not an inhibitor of CYP2C8 or CYP2D6.

Based on in vitro results, elexacaftor, tezacaftor and ivacaftor are not likely to induce CYP3A, CYP1A2 and CYP2B6.

Based on in vitro results, elexacaftor and tezacaftor have a low potential to inhibit the transporter P-gp, while ivacaftor has the potential to inhibit P-gp.

Co-administration of tezacaftor/ivacaftor with digoxin, a sensitive P-gp substrate, increased digoxin exposure by 1.3-fold in a clinical study. Based on in vitro results, elexacaftor and M23-ELX may inhibit OATP1B1 and OATP1B3 uptake. Tezacaftor has a low potential to inhibit BCRP, OCT2, OAT1, or OAT3. Ivacaftor is not an inhibitor of the transporters OCT1, OCT2, OAT1, or OAT3.

The effects of elexacaftor, tezacaftor and/or ivacaftor on the exposure of co-administered drugs are shown in Table 8 [see Drug Interactions (7)].

Potential for Other Drugs to Affect Elexacaftor, Tezacaftor and/or Ivacaftor
In vitro studies showed that elexacaftor, tezacaftor and ivacaftor are all metabolized by CYP3A. Exposure to elexacaftor, tezacaftor and ivacaftor may be reduced by concomitant CYP3A inducers and increased by concomitant CYP3A inhibitors. In vitro studies showed that elexacaftor and tezacaftor are substrates for the efflux transporter P-gp, but ivacaftor is not. Elexacaftor and ivacaftor are not substrates for OATP1B1 or OATP1B3; tezacaftor is a substrate for OATP1B1, but not OATP1B3. Tezacaftor is a substrate for BCRP.

The effects of co-administered drugs on the exposure of elexacaftor, tezacaftor and/or ivacaftor are shown in Table 9 [see Dosage and Administration (2.3) and Drug Interactions (7)].

| Table 8: Impact of Elexacaftor, Tezacaftor and/or Ivacaftor on Other Drugs |
|-----------------------------|--------------------------|-----------------------------|
| Dose and Schedule | Effect on Other Drug PK | Geometric Mean Ratio (90% CI) of Other Drug No Effect = 1.0 |
| | AUC | Cmax |
| Midazolam 2 mg single oral dose | TEZ 100 mg qd/IVA 150 mg q12h | ↔ Midazolam |
| | 1.12 (1.01, 1.25) | 1.13 (1.01, 1.25) |
| Digoxin 0.5 mg single dose | TEZ 100 mg qd/IVA 150 mg q12h | ↑ Digoxin |
| | 1.30 (1.17, 1.45) | 1.32 (1.07, 1.64) |
| Oral Contraceptive Ethiynl estradiol 30 µg/Levonorgestrel 150 µg qd | ELX 200 mg qd/TEZ 100 mg qd/IVA 150 mg q12h | ↑ Ethinyl estradiol↑ Levonorgestrel |
| | 1.33 (1.20, 1.49) | 1.26 (1.14, 1.39) |
| | 1.23 (1.10, 1.37) | 1.10 (0.985, 1.23) |
| Rosiglitazone 4 mg single oral dose | IVA 150 mg q12h | ↔ Rosiglitazone |
| | 0.975 (0.897, 1.06) | 0.928 (0.859, 1.00) |
| Desipramine 50 mg single dose | IVA 150 mg q12h | ↔ Desipramine |
| | 1.04 (0.985, 1.10) | 1.00 (0.939; 1.07) |

↑ = increase, ↓ = decrease, ↔ = no change. CI = Confidence Interval; ELX= elexacaftor; TEZ = tezacaftor; IVA = ivacaftor; PK = Pharmacokinetics

* Effect not clinically significant [see Drug Interactions (7,6)].

Potential for Other Drugs to Affect Elexacaftor, Tezacaftor and/or Ivacaftor
In vitro studies showed that elexacaftor, tezacaftor and ivacaftor are all metabolized by CYP3A. Exposure to elexacaftor, tezacaftor and ivacaftor may be reduced by concomitant CYP3A inducers and increased by concomitant CYP3A inhibitors.

In vitro studies showed that elexacaftor and tezacaftor are substrates for the efflux transporter P-gp, but ivacaftor is not. Elexacaftor and ivacaftor are not substrates for OATP1B1 or OATP1B3; tezacaftor is a substrate for OATP1B1, but not OATP1B3. Tezacaftor is a substrate for BCRP.

The effects of co-administered drugs on the exposure of elexacaftor, tezacaftor and/or ivacaftor are shown in Table 9 [see Dosage and Administration (2.3) and Drug Interactions (7)].

| Table 9: Impact of Other Drugs on Elexacaftor, Tezacaftor and/or Ivacaftor |
|-----------------------------|--------------------------|-----------------------------|
| Dose and Schedule | Effect on ELX, TEZ and/or IVA PK | Geometric Mean Ratio (90% CI) of Elexacaftor, Tezacaftor and Ivacaftor No Effect = 1.0 |
| | AUC | Cmax |
| Itraconazole 200 mg q12h on Day 1, followed by 200 mg qd | TEZ 25 mg qd + IVA 50 mg qd | ↑ Tezacaftor |
| | 4.02 (3.71, 4.63) | 2.83 (2.62, 3.07) |
| | ↑ Ivaftor | 15.6 (13.4, 18.1) | 8.60 (7.41, 9.98) |
| Itraconazole 200 mg qd | ELX 20 mg + TEZ 50 mg single dose | ↑ Elexacaftor |
| | 2.83 (2.59, 3.10) | 1.05 (0.977, 1.13) |
| | ↑ Tezacaftor | 4.51 (3.85, 5.29) | 1.48 (1.33, 1.65) |
| Ketoconazole 400 mg qd | IVA 150 mg single dose | ↑ Ivaftor |
| | 8.45 (7.14, 10.0) | 2.65 (2.21, 3.18) |
| Ciprofloxacin 750 mg q12h | TEZ 50 mg q12h + IVA 150 mg q12h | ↔ Tezacaftor |
| | 1.08 (1.05, 1.13) | 1.05 (0.99, 1.11) |
13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

No studies of carcinogenicity, mutagenicity, or impairment of fertility were conducted with the combination of elexacaftor, tezacaftor and ivacaftor; however, separate studies of elexacaftor, tezacaftor and ivacaftor are described below.

Elexacaftor

A 6-month study in Tg.rasH2 transgenic mice showed no evidence of tumorigenicity at 50 mg/kg/day dose, the highest dose tested.

A two-year study was conducted in rats to assess the carcinogenic potential of elexacaftor. No evidence of tumorigenicity was observed in rats at elexacaftor oral doses up to 10 mg/kg/day (approximately 2 and 5 times the MRHD based on summed AUCs of elexacaftor and its metabolite in male and female rats, respectively).

Elexacaftor was negative for genotoxicity in the following assays: Ames test for bacterial gene mutation, in vitro mammalian cell micronucleus assay in TK6 cells, and in vivo mouse micronucleus test.

Elexacaftor did not cause reproductive system toxicity in male rats at 55 mg/kg/day and female rats at 25 mg/kg/day, equivalent to approximately 6 times and 4 times the MRHD, respectively (based on summed AUCs of elexacaftor and its metabolite). Elexacaftor did not cause embryonic toxicity at 35 mg/kg/day which was the highest dose tested, equivalent to approximately 7 times the MRHD (based on summed AUCs of elexacaftor and its metabolite). Lower male and female fertility, male copulation and female conception indices were observed in males at 75 mg/kg/day and females at 35 mg/kg/day, equivalent to approximately 6 times and 7 times, respectively, the MRHD (based on summed AUCs of elexacaftor and its metabolite).

Tezacaftor

A two-year study in Sprague-Dawley rats and a 6-month study in Tg.rasH2 transgenic mice were conducted to assess the carcinogenic potential of tezacaftor. No evidence of tumorigenicity from tezacaftor was observed in male and female rats at oral doses up to 100 mg/kg/day (approximately 3 times the MRHD based on summed AUCs of tezacaftor and its metabolites in male and females, respectively). No evidence of tumorigenicity was observed in male and female Tg.rasH2 transgenic mice at tezacaftor doses up to 500 mg/kg/day.

Tezacaftor was negative for genotoxicity in the following assays: Ames test for bacterial gene mutation, in vitro chromosomal aberration assay in Chinese hamster ovary cells and in vivo mouse micronucleus test.

There were no effects on male or female fertility and early embryonic development in rats at oral tezacaftor doses up to 100 mg/kg/day (approximately 3 times the MRHD based on summed AUC of tezacaftor and M1-TEZ).

Ivacaftor

Two-year studies were conducted in CD-1 mice and Sprague-Dawley rats to assess the carcinogenic potential of ivacaftor. No evidence of tumorigenicity from ivacaftor was observed in mice or rats at oral doses up to 200 mg/kg/day and 50 mg/kg/day, respectively (approximately equivalent to 2 and 7 times the MRHD, respectively, based on summed AUCs of ivacaftor and its metabolites).

Ivacaftor did not cause reproductive system toxicity in male and female rats at 200 mg/kg/day (approximately 7 and 5 times, respectively, the MRHD based on summed AUCs of ivacaftor and its metabolites). Increases in prolonged diestrus were observed in females at 200 mg/kg/day. Ivacaftor also increased the number of females with all nonviable embryos and decreased corpora lutea, implantations and viable embryos in rats at 200 mg/kg/day (approximately 5 times the MRHD based on summed AUCs of ivacaftor and its metabolites) when dams were dosed prior to and during early pregnancy. These impairments of fertility and reproductive performance in male and female rats at 200 mg/kg/day were attributed to severe toxicity.

14 CLINICAL STUDIES

Efficacy:

The efficacy of TRIKAFTA in patients with CF aged 12 years and older was evaluated in two double-blind, controlled trials (Trials 1 and 2).

Trial 1 was a 24-week, randomized, double-blind, placebo-controlled study in patients who had an F508del mutation on one allele and a mutation on the second allele that results in either no CFTR protein or a CFTR protein that is not responsive to ivacaftor and tezacaftor/ivacaftor. An interim analysis was planned when at least 140 patients completed Week 4 and at least 100 patients completed Week 12.

Trial 2 was a 4-week, randomized, double-blind, active-controlled study in patients who are homozygous for the F508del mutation. Patients received tezacaftor 100 mg qd/ivacaftor 150 mg q12h during a 4-week, open-label run-in period and were then randomized and dosed to receive TRIKAFTA or tezacaftor 100 mg qd/ivacaftor 150 mg q12h during a 4-week, double-blind treatment period.
Patients in Trials 1 and 2 had a confirmed diagnosis of CF and at least one F508del mutation. Patients discontinued any previous CFTR modulator therapies, but continued on their other standard-of-care CF therapies (e.g., bronchodilators, inhaled antibiotics, dornase alfa and hypertonic saline). Patients had a ppFEV₁ at screening between 40-90%. Patients with a history of colonization with organisms associated with a more rapid decline in pulmonary status, including but not limited to *Burkholderia cenocepacia*, *Burkholderia dolosa*, or *Mycobacterium abscessus*, or who had an abnormal liver function test at screening (ALT, AST, ALP, or GGT $\geq$ 3 x ULN, or total bilirubin $\geq$ 2 x ULN), were excluded from the trials. Patients in Trials 1 and 2 were eligible to roll over into a 96-week, open-label extension study.

14.1 Trial 1
Trial 1 evaluated 403 patients (200 TRIKAFTA, 203 placebo) with CF aged 12 years and older (mean age 26.2 years). The mean ppFEV₁ at baseline was 61.4% (range: 32.3%, 97.1%). The primary endpoint assessed at the time of interim analysis was mean absolute change in ppFEV₁ from baseline at Week 4. The final analysis tested all key secondary endpoints in the 403 patients who completed the 24-week study participation, including absolute change in ppFEV₁ from baseline through Week 24; absolute change in sweat chloride from baseline at Week 4 and through Week 24; number of pulmonary exacerbations through Week 24; absolute change in BMI from baseline at Week 24, and absolute change in CFQ-R Respiratory Domain Score (a measure of respiratory symptoms relevant to patients with CF, such as cough, sputum production and difficulty breathing) from baseline at Week 4 and through Week 24.

Of the 403 patients included in the interim analysis, the treatment difference between TRIKAFTA and placebo for the mean absolute change from baseline in ppFEV₁ at Week 4 was 13.8 percentage points (95% CI: 12.1, 15.4; $P<0.0001$).

The treatment difference between TRIKAFTA and placebo for mean absolute change in ppFEV₁ from baseline through Week 24 was 14.3 percentage points (95% CI: 12.7, 15.8; $P<0.0001$). Mean improvement in ppFEV₁ was observed at the first assessment on Day 15 and sustained through the 24-week treatment period (see Figure 1). Improvements in ppFEV₁ were observed regardless of age, baseline ppFEV₁, sex and geographic region. See Table 10 for a summary of primary and key secondary outcomes in Trial 1.

### Table 10: Primary and Key Secondary Efficacy Analyses (Trial 1)

<table>
<thead>
<tr>
<th>Analysis</th>
<th>Statistic</th>
<th>Treatment Difference* for TRIKAFTA (N=200) vs Placebo (N=203)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Primary (Interim Full Analysis Set)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Absolute change in ppFEV₁ from baseline at Week 4 (percentage points)</td>
<td>Treatment difference (95% CI)</td>
<td>13.8 (12.1, 15.4)</td>
</tr>
<tr>
<td></td>
<td>$P$ value</td>
<td>$P&lt;0.0001$</td>
</tr>
<tr>
<td>Absolute change in ppFEV₁ from baseline through Week 24 (percentage points)</td>
<td>Treatment difference (95% CI)</td>
<td>14.3 (12.7, 15.8)</td>
</tr>
<tr>
<td></td>
<td>$P$ value</td>
<td>$P&lt;0.0001$</td>
</tr>
<tr>
<td>Number of pulmonary exacerbations from baseline through Week 24</td>
<td>Rate ratio (95% CI)</td>
<td>0.37 (0.25, 0.55)</td>
</tr>
<tr>
<td></td>
<td>$P$ value</td>
<td>$P&lt;0.0001$</td>
</tr>
<tr>
<td>Absolute change in sweat chloride from baseline through Week 24 (mmol/L)</td>
<td>Treatment difference (95% CI)</td>
<td>-41.8 (-44.4, -39.3)</td>
</tr>
<tr>
<td></td>
<td>$P$ value</td>
<td>$P&lt;0.0001$</td>
</tr>
<tr>
<td>Absolute change in CFQ-R respiratory domain score from baseline through Week 24 (points)</td>
<td>Treatment difference (95% CI)</td>
<td>20.2 (17.5, 23.0)</td>
</tr>
<tr>
<td></td>
<td>$P$ value</td>
<td>$P&lt;0.0001$</td>
</tr>
<tr>
<td>Absolute change in BMI from baseline at Week 24 (kg/m²)</td>
<td>Treatment difference (95% CI)</td>
<td>1.04 (0.85, 1.23)</td>
</tr>
<tr>
<td></td>
<td>$P$ value</td>
<td>$P&lt;0.0001$</td>
</tr>
<tr>
<td>Absolute change in sweat chloride from baseline at Week 4 (mmol/L)</td>
<td>Treatment difference (95% CI)</td>
<td>-41.2 (-44.0, -38.5)</td>
</tr>
<tr>
<td></td>
<td>$P$ value</td>
<td>$P&lt;0.0001$</td>
</tr>
<tr>
<td>Absolute change in CFQ-R respiratory domain score from baseline at Week 4 (points)</td>
<td>Treatment difference (95% CI)</td>
<td>20.1 (16.9, 23.2)</td>
</tr>
<tr>
<td></td>
<td>$P$ value</td>
<td>$P&lt;0.0001$</td>
</tr>
</tbody>
</table>

ppFEV₁: percent predicted Forced Expiratory Volume in 1 second; CI: Confidence Interval; CFQ-R: Cystic Fibrosis Questionnaire-Revised; BMI: Body Mass Index.
* Treatment difference provided as the outcome measure for changes in ppFEV₁, sweat chloride, CFQ-R and BMI; Rate ratio provided as the outcome measure for the number of pulmonary exacerbations.
** Primary endpoint was based on interim analysis in 403 patients.
§ Key secondary endpoints were tested at the final analysis in 403 patients.
† A pulmonary exacerbation was defined as a change in antibiotic therapy (IV, inhaled, or oral) as a result of 4 or more of 12 pre-specified sino-pulmonary signs/symptoms.
$ Number of pulmonary exacerbation events (event rate per year calculated based on 48 weeks per year) in the TRIKAFTA group were 41 (0.37) and 113 (0.98) in the placebo group.
14.2 Trial 2
Trial 2 evaluated 107 patients with CF aged 12 years and older (mean age 28.4 years). The mean ppFEV₁ at baseline, following the 4-week, open-label run-in period with tezacaftor/ivacaftor was 60.9% (range: 35.0%, 89.0%). The primary endpoint was mean absolute change in ppFEV₁ from baseline at Week 4 of the double-blind treatment period. The key secondary efficacy endpoints were absolute change in sweat chloride and CFQ-R Respiratory Domain Score from baseline at Week 4. Treatment with TRIKAFTA compared to tezacaftor/ivacaftor resulted in a statistically significant improvement in ppFEV₁ of 10.0 percentage points (95% CI: 7.4, 12.6; \( P < 0.0001 \)). Mean improvement in ppFEV₁ was observed at the first assessment on Day 15. Improvements in ppFEV₁ were observed regardless of age, sex, baseline ppFEV₁ and geographic region. See Table 11 for a summary of primary and key secondary outcomes.

### Table 11: Primary and Key Secondary Efficacy Analyses, Full Analysis Set (Trial 2)

<table>
<thead>
<tr>
<th>Analysis *</th>
<th>Statistic</th>
<th>Treatment Difference for TRIKAFTA (N=55) vs Tezacaftor/Ivacaftor # (N=52)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Primary</strong></td>
<td>Absolute change in ppFEV₁ from baseline at Week 4 (percentage points)</td>
<td>Treatment difference (95% CI) ( P ) value</td>
</tr>
<tr>
<td><strong>Key Secondary</strong></td>
<td>Absolute change in sweat chloride from baseline at Week 4 (mmol/L)</td>
<td>Treatment difference (95% CI) ( P ) value</td>
</tr>
<tr>
<td></td>
<td>Absolute change in CFQ-R respiratory domain score from baseline at Week 4 (points)</td>
<td>Treatment difference (95% CI) ( P ) value</td>
</tr>
</tbody>
</table>

ppFEV₁: percent predicted Forced Expiratory Volume in 1 second; CI: Confidence Interval; CFQ-R: Cystic Fibrosis Questionnaire-Revised.

* Baseline for primary and key secondary endpoints is defined as the end of the 4-week tezacaftor/ivacaftor run-in period.

# HOW SUPPLIED/STORAGE AND HANDLING
TRIKAFTA tablets are supplied in a co-packaged blister pack sealed into a printed wallet, containing elexacaftor, tezacaftor and ivacaftor fixed-dose combination tablets and ivacaftor tablets. Four such wallets are placed in a printed outer carton.

- The elexacaftor 50 mg, tezacaftor 25 mg, and ivacaftor 37.5 mg tablets are supplied as light orange, capsule-shaped tablets; each containing 50 mg of elexacaftor, 25 mg of tezacaftor and 37.5 mg of ivacaftor. Each tablet is debossed with “T50” on one side and plain on the other. Ivacaftor 75 mg tablets are supplied as light blue, film-coated, capsule-shaped tablets; each containing 75 mg of ivacaftor. Each tablet is printed with the characters “V 75” in black ink on one side and plain on the other.

TRIKAFTA is supplied as:

84-count tablet carton
(4 wallets, each wallet containing 14 tablets of elexacaftor, tezacaftor and ivacaftor and 7 tablets of ivacaftor) NDC 51167-106-02

- The elexacaftor 100 mg, tezacaftor 50 mg, and ivacaftor 75 mg tablets are supplied as orange, capsule-shaped tablets; each containing 100 mg of elexacaftor, 50 mg of tezacaftor and 75 mg of ivacaftor. Each tablet is debossed with “T100” on one side and plain on the other. Ivacaftor 150 mg tablets are supplied as light blue, film-coated, capsule-shaped tablets; each containing 150 mg of ivacaftor. Each tablet is printed with the characters “V 150” in black ink on one side and plain on the other.

TRIKAFTA is supplied as:

84-count tablet carton
(4 wallets, each wallet containing 14 tablets of elexacaftor, tezacaftor and ivacaftor and 7 tablets of ivacaftor) NDC 51167-331-01

TRIKAFTA oral granules are supplied in morning and evening unit-dose packets. The morning dose packets contain a fixed-dose combination of elexacaftor, tezacaftor, and ivacaftor oral granules. The evening dose packets contain ivacaftor oral granules. The packets are placed into a printed wallet. Four such wallets are placed in a printed outer carton.

- The elexacaftor 80 mg, tezacaftor 40 mg and ivacaftor 60 mg oral granules are supplied as white to off-white, sweetened, unflavored granules approximately 2 mm in diameter enclosed in unit-dose packets each containing 80 mg of elexacaftor, 40 mg of tezacaftor and 60 mg of ivacaftor. The packets are white and
Inform patients that isolated elevation of transaminases or bilirubin have occurred in patients treated with TRIKAFTA. In some instances, transaminase elevations have been associated with concomitant elevations in total bilirubin and/or INR and have resulted in patients being hospitalized for intervention, including in patients with hepatic impairment.

**Use in Patients with Hepatic Impairment**

Drug Interactions (7) and Clinical Pharmacology (12.3)

Hypersensitivity Reactions, Including Anaphylaxis

**Pharmacology (12.3)**

Use in Patients with Hepatic Impairment

Advise the patient to read the FDA-approved patient labeling (Patient Information).

**Elevated Transaminases and Hepatic Injury**

Inform the patients that liver failure leading to transplantation has been reported in a patient with cirrhosis with portal hypertension while receiving TRIKAFTA. Avoid use of TRIKAFTA in patients with pre-existing advanced liver disease (e.g., cirrhosis, portal hypertension, ascites, hepatic encephalopathy) unless the benefits are expected to outweigh the risks. If used in these patients, they should be closely monitored after the initiation of treatment [see Dosage and Administration (2.2), Warnings and Precautions (5.1), Adverse Reactions (6), Use in Specific Populations (8.7) and Clinical Pharmacology (12.3)].

Inform patients that isolated elevation of transaminases or bilirubin have occurred in patients treated with TRIKAFTA. In some instances, transaminase elevations have been associated with concomitant elevations in total bilirubin and/or INR and have resulted in patients being hospitalized for intervention, including in patients without a history of pre-existing liver disease. Liver function tests (ALT, AST and bilirubin) should be assessed prior to initiating TRIKAFTA, every 3 months during the first year of treatment, and annually thereafter. More frequent monitoring should be considered in patients with a history of hepatobiliary disease or liver function test elevations [see Dosage and Administration (2.2), Warnings and Precautions (5.1), Adverse Reactions (6), Use in Specific Populations (8.7) and Clinical Pharmacology (12.3)].

**Drug Interactions with CYP3A Inducers and Inhibitors**

Ask patients to tell you all the medications they are taking including any herbal supplements or vitamins. Co-administration of TRIKAFTA with strong CYP3A inducers (e.g., rifampin, St. John’s wort) is not recommended, as they may reduce the efficacy of TRIKAFTA. Dose reduction to two elexacaftor/tezacaftor/ivacaftor tablets or one elexacaftor/tezacaftor/ivacaftor oral granules packet twice a week is recommended when co-administered with strong CYP3A inhibitors, such as ketoconazole. Advise the patient not to take the evening dose of ivacaftor. Dose reduction to two elexacaftor/tezacaftor/ivacaftor tablets or one elexacaftor/tezacaftor/ivacaftor oral granules packet and one ivacaftor tablet or ivacaftor oral granules packet, taken on alternate days, is recommended when co-administered with moderate CYP3A inhibitors, such as fluconazole. Advise the patient not to take the evening dose of ivacaftor. Food or drink containing grapefruit should be avoided [see Dosage and Administration (2.3), Warnings and Precautions (5), Drug Interactions (7) and Clinical Pharmacology (12.3)].

**Use in Patients with Hepatic Impairment**

No dose adjustment is recommended for patients with mild hepatic impairment (Child-Pugh Class A, score 5-6). See Table 2. Liver function tests should be closely monitored.

Treatment is not recommended for patients with moderate hepatic impairment (Child-Pugh Class B, score 7-9). Use of TRIKAFTA in patients with moderate hepatic impairment should only be considered when there is a clear medical need, and the benefit exceeds the risk. If used in patients with moderate hepatic impairment, TRIKAFTA should be used with caution at a reduced dose (see Table 2). Liver function tests should be closely monitored.

TRIKAFTA has not been studied in patients with severe hepatic impairment (Child-Pugh Class C, score 10-15), but the exposure is expected to be higher than in patients with moderate hepatic impairment. TRIKAFTA should not be used in patients with severe hepatic impairment. Inquire and/or assess whether patients have liver impairment [see Dosage and Administration (2.2), Warnings and Precautions (5.1), Adverse Reactions (6), Use in Specific Populations (8.7) and Clinical Pharmacology (12.3)].

**Hypersensitivity Reactions, Including Anaphylaxis**

Hypersensitivity reactions including angioedema and anaphylaxis are possible with use of TRIKAFTA. Inform patients of the early signs of hypersensitivity reactions including rash, hives, itching, facial swelling, tightness of the chest and wheezing. Advise patients to discontinue use of TRIKAFTA immediately and contact their physician or go to the emergency department if these symptoms occur.

**Cataracts**

Inform patients that abnormality of the eye lens (cataract) has been noted in some children and adolescents receiving ivacaftor-containing regimens. Baseline and follow-up ophthalmological examinations should be performed in pediatric patients initiating treatment with TRIKAFTA [see Warnings and Precautions (5.5) and Use in Specific Populations (8.4)].

**Administration**

Inform patients that TRIKAFTA is best absorbed by the body when taken with food that contains fat. A typical CF diet will satisfy this requirement. Examples include eggs, butter, peanut butter, whole-milk dairy products (such as whole milk, cheese and yogurt), etc. [see Dosage and Administration (2.5) and Clinical Pharmacology (12.3)].

Patients should be informed about what to do in the event they miss a dose [see Dosage and Administration (2.4)] of TRIKAFTA:

- If 6 hours or less have passed since the missed morning or evening dose is usually taken, patients should be instructed to take the prescribed dose with fat-containing food as soon as possible.
• If more than 6 hours have passed since:
  o the time the morning dose is usually taken, patients should be instructed to take the morning dose as soon as possible, and not take the evening dose. Patients should take the next scheduled morning dose at the usual time.
  o the time the evening dose is usually taken, patients should be instructed to not take the missed evening dose. Patients should take the next scheduled morning dose at the usual time.
• Patients should be instructed to not take the morning and evening doses at the same time.
• Patients should be advised to contact their health care provider if they have questions.
Patient Information
TRIKAFTA® (tri-KAF-tuh)
(elexacaftor, tezacaftor, and ivacaftor tablets; ivacaftor tablets), co-packaged for oral use
(elexacaftor, tezacaftor, and ivacaftor oral granules; ivacaftor oral granules), co-packaged

What is TRIKAFTA?
• TRIKAFTA is a prescription medicine used for the treatment of cystic fibrosis (CF) in people aged 2 years and older who have at least one copy of the F508del mutation in the cystic fibrosis transmembrane conductance regulator (CFTR) gene or another mutation that is responsive to treatment with TRIKAFTA.
• Talk to your doctor to learn if you have an indicated CF gene mutation.

Before taking TRIKAFTA, tell your doctor about all of your medical conditions, including if you:
• are allergic to TRIKAFTA or any ingredients in TRIKAFTA. See the end of this patient information leaflet for a complete list of ingredients in TRIKAFTA.
• have kidney problems.
• have or have had liver problems.
• are pregnant or plan to become pregnant. It is not known if TRIKAFTA will harm your unborn baby. You and your doctor should decide if you will take TRIKAFTA while you are pregnant.
• are breastfeeding or planning to breastfeed. It is not known if TRIKAFTA passes into your breast milk. You and your doctor should decide if you will take TRIKAFTA while you are breastfeeding.

Tell your doctor about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements.

TRIKAFTA may affect the way other medicines work and other medicines may affect how TRIKAFTA works. The dose of TRIKAFTA may need to be adjusted when taken with certain medicines. Ask your doctor or pharmacist for a list of these medicines if you are not sure.

Especially tell your doctor if you take:
• antibiotics such as rifampin (RIFAMATE®, RIFATER®) or rifabutin (MYCOBUTIN®)
• seizure medicines such as phenobarbital, carbamazepine (TEGRETOL®, CARBATROL®, EQUETRO®), or phenytoin (DILANTIN®, PHENYTEK®)
• St. John’s wort
• antifungal medicines including ketoconazole, itraconazole (such as SPORANOX®), posaconazole (such as NOXAFIL®), voriconazole (such as VFEND®), or fluconazole (such as DIFLUCAN®).
• antibiotics including telithromycin, clarithromycin (such as BIAXIN®), or erythromycin (such as ERY-TAB®).

Know the medicines you take. Keep a list of them to show your doctor and pharmacist when you get a new medicine.

How should I take TRIKAFTA?
• Take TRIKAFTA exactly as your doctor tells you to take it.
• Take TRIKAFTA by mouth only.
• TRIKAFTA consists of 2 different doses (a morning dose and an evening dose). Each dose has different ingredients.
• Always take TRIKAFTA oral granules or tablets with food that contains fat. Examples of fat-containing foods include butter, oil, eggs, peanut butter, nuts, meat, and whole-milk dairy products such as whole milk, cheese, and yogurt.
• TRIKAFTA oral granules (age 2 to less than 6 years weighing less than 14 kg):
  o The white and blue packets each contain the medicines elexacaftor, tezacaftor, and ivacaftor. Take one morning dose packet in the morning.
  o The white and green color packets each contain the medicine ivacaftor. Take one evening dose packet in the evening.
• TRIKAFTA oral granules (age 2 to less than 6 years weighing 14 kg or more):
  o The white and orange packets each contain the medicines elexacaftor, tezacaftor, and ivacaftor. Take one morning dose packet in the morning.
  o The white and pink color packets each contain the medicine ivacaftor. Take one evening dose packet in the evening.
To prepare TRIKAFTA oral granules:
- Hold the packet with the cut line on top.
- Shake the packet gently to settle the TRIKAFTA oral granules.
- Tear or cut the packet open along the cut line.
- Carefully pour all the TRIKAFTA oral granules in the packet into 1 teaspoon (5 mL) of soft food or liquid in a small container (like an empty bowl). The food or liquid should be at or below room temperature. Some examples of soft foods or liquids include pureed fruits or vegetables, yogurt, applesauce, water, milk, or juice.
- Mix the TRIKAFTA granules with food or liquid.
- After mixing, give TRIKAFTA within 1 hour. Make sure all the medicine is taken.

TRIKAFTA tablets (age 6 to less than 12 years weighing less than 30 kg):
- The light orange tablet is marked with 'T50' and each tablet contains the medicines elexacaftor, tezacaftor and ivacaftor. Take 2 light orange tablets in the morning.
- The light blue tablet is marked with ‘V 75’ and contains the medicine ivacaftor. Take 1 light blue tablet in the evening.

TRIKAFTA tablets (age 6 to less than 12 years weighing 30 kg or more, and age 12 years and older):
- The orange tablet is marked with ‘T100’ and each tablet contains the medicines elexacaftor, tezacaftor and ivacaftor. Take 2 orange tablets in the morning.
- The light blue tablet is marked with ‘V 150’ and contains the medicine ivacaftor. Take 1 light blue tablet in the evening.

Take TRIKAFTA tablets whole.
Take the morning and the evening doses about 12 hours apart.
If you miss a dose of TRIKAFTA and:
- it is 6 hours or less from the time you usually take the morning dose or the evening dose, take the missed dose with food that contains fat as soon as you can. Then take your next dose at your usual time.
- it is more than 6 hours from the time you usually take the morning dose, take the missed dose with food that contains fat as soon as you can. Do not take the evening dose.
- it is more than 6 hours from the time you usually take the evening dose, do not take the missed dose. Take your next morning dose at the usual time with food that contains fat.
- Do not take more than your usual dose of TRIKAFTA to make up for a missed dose.
- Do not take the morning and evening doses at the same time.
- If you are not sure about your dosing, call your doctor.

What should I avoid while taking TRIKAFTA?
- Avoid food or drink that contains grapefruit while you are taking TRIKAFTA.

What are the possible side effects of TRIKAFTA?
TRIKAFTA can cause serious side effects, including:
- Liver damage and worsening liver function in people with severe liver disease that can be serious and may require transplantation. Liver damage has also happened in people without liver disease.
  - High liver enzymes in the blood is a common side effect in people treated with TRIKAFTA. These can be serious and may be a sign of liver injury. Your doctor will do blood tests to check your liver:
    - before you start TRIKAFTA
    - every 3 months during your first year of taking TRIKAFTA
    - then every year while you are taking TRIKAFTA
  - Your doctor may do blood tests to check the liver more often if you have had high liver enzymes in your blood in the past.
  - Call your doctor right away if you have any of the following symptoms of liver problems:
    - pain or discomfort in the upper right stomach (abdominal) area
    - yellowing of your skin or the white part of your eyes
    - loss of appetite
  - nausea or vomiting
  - dark, amber-colored urine

- Serious Allergic Reactions can happen to people who are treated with TRIKAFTA. Call your healthcare provider or go to the emergency room right away if you have any symptoms of an allergic reaction. Symptoms of an allergic reaction may include:
  - rash or hives
  - tightness of the chest or throat or difficulty breathing
  - swelling of the face, lips and/or tongue, difficulty swallowing
- light-headedness or dizziness
- **Abnormality of the eye lens (cataract)** has happened in some children and adolescents treated with TRIKAFTA. If you are a child or adolescent, your doctor should perform eye examinations before and during treatment with TRIKAFTA to look for cataracts.

The most common side effects of TRIKAFTA include:
- headache
- upper respiratory tract infection (common cold) including stuffy and runny nose
- stomach (abdominal) pain
- diarrhea
- rash
- increase in liver enzymes
- increase in a certain blood enzyme called creatine phosphokinase
- flu (influenza)
- inflamed sinuses
- increase in blood bilirubin

Tell your doctor if you have any side effect that bothers you or that does not go away. These are not all the possible side effects of TRIKAFTA. For more information, ask your doctor or pharmacist. Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

### How should I store TRIKAFTA?
- Store TRIKAFTA at room temperature between 68°F to 77°F (20°C to 25°C).

### General information about the safe and effective use of TRIKAFTA.
Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. Do not use TRIKAFTA for a condition for which it was not prescribed. Do not give TRIKAFTA to other people, even if they have the same symptoms you have. It may harm them. You can ask your pharmacist or doctor for information about TRIKAFTA that is written for health professionals.

### What are the ingredients in TRIKAFTA?

**Elexacaftor/tezacaftor/ivacaftor tablets:**
- **Active ingredients:** elexacaftor, tezacaftor and ivacaftor.
- **Inactive ingredients:** croscarmellose sodium, hypromellose, hypromellose acetate succinate, magnesium stearate, microcrystalline cellulose, sodium lauryl sulfate. The tablet film coat contains hydroxypropyl cellulose, hypromellose, iron oxide red, iron oxide yellow, talc, and titanium dioxide.

**Ivacaftor tablets:**
- **Active ingredients:** ivacaftor.
- **Inactive ingredients:** colloidal silicon dioxide, croscarmellose sodium, lactose monohydrate, magnesium stearate, microcrystalline cellulose, and sodium lauryl sulfate. The tablet film coat contains carnauba wax, FD&C Blue #2, PEG 3350, polyvinyl alcohol, talc, and titanium oxide. The printing ink contains ammonium hydroxide, iron oxide black, propylene glycol, and shellac.

**Elexacaftor/tezacaftor/ivacaftor oral granules:**
- **Active ingredients:** elexacaftor, tezacaftor, and ivacaftor.
- **Inactive ingredients:** colloidal silicon dioxide, croscarmellose sodium, hypromellose acetate succinate, lactose monohydrate, magnesium stearate, mannitol, sodium lauryl sulfate, and sucralose.

**Ivacaftor oral granules:**
- **Active ingredients:** ivacaftor.
- **Inactive ingredients:** colloidal silicon dioxide, croscarmellose sodium, hypromellose acetate succinate, lactose monohydrate, magnesium stearate, mannitol, sodium lauryl sulfate, and sucralose.

**VERTE**
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For more information, go to www.trikafta.com or call 1-877-752-5933.

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