

XOFLUZA- baloxavir marboxil tablet, film coated
XOFLUZA- baloxavir marboxil granule, for solution
Genentech, Inc.

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use XOFLUZA safely and effectively. See full prescribing information for XOFLUZA.

XOFLUZA[®] (baloxavir marboxil) tablets, for oral use
XOFLUZA[®] (baloxavir marboxil) for oral suspension
Initial U.S. Approval: 2018

-----**RECENT MAJOR CHANGES**-----

Indications and Usage
Treatment of Influenza (1.1)

03/2024

-----**INDICATIONS AND USAGE**-----

XOFLUZA is an influenza virus polymerase acidic (PA) endonuclease inhibitor indicated for:

- Treatment of acute uncomplicated influenza in patients 5 years of age and older who have been symptomatic for no more than 48 hours and who are otherwise healthy or at high risk of developing influenza-related complications. (1.1)
- Post-exposure prophylaxis of influenza in patients 5 years of age and older following contact with an individual who has influenza. (1.2)

Limitations of Use

Influenza viruses change over time, and factors such as the virus type or subtype, emergence of resistance, or changes in viral virulence could diminish the clinical benefit of antiviral drugs. Consider available information on drug susceptibility patterns for circulating influenza virus strains when deciding whether to use XOFLUZA. (1.3)

-----**DOSAGE AND ADMINISTRATION**-----

Treatment and Post-Exposure Prophylaxis of Influenza

XOFLUZA should be taken as a single dose as soon as possible and within 48 hours of influenza symptom onset for treatment of acute uncomplicated influenza or following contact with an individual who has influenza. XOFLUZA may be taken with or without food. (2.1, 2.2)

Patient Body Weight (kg)	Recommended Single Oral Dose in Patients 5 Years of Age and Older (Tablets)
20 kg to less than 80 kg	One 40 mg tablet (blister card contains one 40 mg tablet)
At least 80 kg	One 80 mg tablet (blister card contains one 80 mg tablet)

Patient Body Weight (kg)	Recommended Single Oral Dose in Patients 5 Years of Age and Older (For Oral Suspension)
Less than 20 kg	2 mg/kg taken as a single dose
20 kg to less than 80 kg	40 mg (20 mL) taken as a single dose
At least 80 kg	80 mg (40 mL) taken as a single dose

Refer to the Full Prescribing Information for additional information on the recommended dosage and preparation of XOFLUZA for oral suspension for oral or enteral use in patients 5 years of age and older. (2.2, 2.3)

-----**DOSAGE FORMS AND STRENGTHS**-----

- Tablets: 40 mg and 80 mg. (3)
- For oral suspension: 40 mg/20 mL when constituted for final concentration of 2 mg/mL. (3)

-----CONTRAINDICATIONS-----

XOFLUZA is contraindicated in patients with a history of hypersensitivity to baloxavir marboxil or any of its ingredients. (4)

-----WARNINGS AND PRECAUTIONS-----

- Hypersensitivity such as anaphylaxis, angioedema, urticaria, and erythema multiforme: Initiate appropriate treatment if an allergic-like reaction occurs or is suspected. (5.1)
- Increased incidence of Treatment-Emergent Resistance in Patients Less Than 5 Years of Age: XOFLUZA is not indicated in patients less than 5 years of age due to increased incidence of treatment-emergent resistance in this age group. In clinical trials, incidence of virus with treatment-emergent substitutions associated with reduced susceptibility to baloxavir (resistance) was higher in pediatric subjects younger than 5 years of age than older subjects. (5.2)
- Risk of bacterial infection: Serious bacterial infections may begin with influenza-like symptoms or may coexist with, or occur as, a complication of influenza. XOFLUZA has not been shown to prevent such complications. Prescribers should be alert to potential secondary bacterial infections and treat them as appropriate. (5.3)

-----ADVERSE REACTIONS-----

Adverse events reported in at least 1% of adult and adolescent influenza subjects treated with XOFLUZA included diarrhea (3%), bronchitis (3%), nausea (2%), sinusitis (2%), and headache (1%). (6.1)

Adverse events reported in at least 5% of pediatric subjects (5 to < 12 years) treated with XOFLUZA included vomiting (5%) and diarrhea (5%).

To report SUSPECTED ADVERSE REACTIONS, contact Genentech at 1-888-835-2555 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

-----DRUG INTERACTIONS-----

- Avoid coadministration of XOFLUZA with dairy products, calcium-fortified beverages, polyvalent cation-containing laxatives, antacids, or oral supplements (e.g., calcium, iron, magnesium, selenium, or zinc). (2.1,7.1)
- Live attenuated influenza vaccines may be affected by antivirals. (7.2)

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

Revised: 3/2024

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

1.1 Treatment of Influenza

XOFLUZA is indicated for treatment of acute uncomplicated influenza in patients 5 years of age and older who have been symptomatic for no more than 48 hours and who are otherwise healthy or at high risk of developing influenza-related complications¹ [see *Clinical Studies (14)*].

1.2 Post-Exposure Prophylaxis of Influenza

XOFLUZA is indicated for post-exposure prophylaxis of influenza in persons 5 years of age and older following contact with an individual who has influenza [see *Clinical Studies (14.4)*].

1.3 Limitations of Use

Influenza viruses change over time, and factors such as the virus type or subtype, emergence of resistance, or changes in viral virulence could diminish the clinical benefit of antiviral drugs. Consider available information on drug susceptibility patterns for circulating influenza virus strains when deciding whether to use XOFLUZA [see *Warnings and Precautions (5.2)*, *Microbiology (12.4)* and *Clinical Studies (14)*].

2 DOSAGE AND ADMINISTRATION

2.1 Dosage and Administration Overview

XOFLUZA is available in two dosage forms:

- XOFLUZA tablets (40 mg and 80 mg).
- XOFLUZA for oral suspension (2 mg/mL). This granule formulation is intended for patients who are unable to or have difficulty swallowing tablets, or those who require enteral administration [see *Dosage and Administration (2.3)*].

XOFLUZA should be taken as soon as possible after influenza symptom onset or exposure to influenza and may be taken with or without food. However, coadministration of XOFLUZA with dairy products, calcium-fortified beverages, polyvalent cation-containing laxatives, antacids, or oral supplements (e.g., calcium, iron, magnesium, selenium, or zinc) should be avoided [see *Drug Interactions (7.1)* and *Clinical Pharmacology (12.3)*].

2.2 Recommended Dosage

Treatment of Acute Uncomplicated Influenza or Post-Exposure Prophylaxis in Adults, and Pediatric Patients (5 Years of Age and Older)

XOFLUZA should be taken as a single dose as soon as possible and within 48 hours of influenza symptom onset for treatment of acute uncomplicated influenza or following contact with an individual who has influenza. The recommended dosage of XOFLUZA in patients 5 years of age or older is a single weight-based dose displayed in Tables 1 and 2.

Table 1 Recommended XOFLUZA Tablet Dosage in Adults and Pediatric Patients 5 Years of Age and Older

Patient Body Weight (kg)	Recommended Single Oral Dose (Tablets)
20 kg to less than 80 kg	One 40 mg tablet (blister card contains one 40 mg tablet)
At least 80 kg	One 80 mg tablet (blister card contains one 80 mg tablet)

Table 2 Recommended XOFLUZA for Oral Suspension Dosage in Adults and Pediatric Patients 5 Years of Age and Older

Patient Body	Recommended Single Oral Dose[*], † (For
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Weight (kg)	Oral Suspension)
Less than 20 kg	2 mg/kg taken as a single dose
20 kg to less than 80 kg	40 mg (20 mL) taken as a single dose
At least 80 kg	80 mg (40 mL [‡]) taken as a single dose

* Recommended XOFLUZA dosage is based on the patient's weight.

† Use a measuring device (oral syringe) to measure the prescribed dose for use.

‡ Dosage requires two bottles of XOFLUZA for oral suspension.

2.3 Preparation of XOFLUZA for Oral Suspension by Healthcare Provider

Prior to dispensing to the patient, constitute XOFLUZA for oral suspension with 20 mL of drinking water or sterile water. After constitution, each bottle of XOFLUZA for oral suspension contains 40 mg of baloxavir marboxil per 20 mL of volume for a final concentration of 2 mg/mL. This dosage form can be used for oral or enteral use. The contents of the full bottle(s) of XOFLUZA for oral suspension should not be taken without use of measuring device (oral syringe). Ensure the caregiver or patient uses an oral syringe to measure the prescribed dose of XOFLUZA for oral suspension. Patients may need to draw up XOFLUZA for oral suspension multiple times using the oral syringe to receive the full dose.

Constituting XOFLUZA for Oral Suspension

Prepare the suspension at the time of dispensing. **Administration must occur within 10 hours after constitution because the product does not contain a preservative.**

1. Gently tap the bottom of the bottle to loosen the granules.
2. Constitute XOFLUZA for oral suspension with 20 mL of drinking water or sterile water.
3. Gently swirl the suspension to ensure that the granules are evenly suspended. Do not shake.
4. Write the expiration time and date on the bottle label in the space provided (10 hours from constitution time).

Important Information for the Healthcare Provider

- Provide caregiver or patient with a measuring device (oral syringe) to deliver the prescribed dose of the suspension for oral use. For enteral administration (i.e., feeding tube), draw up suspension with an enteral syringe. Flush with 1 mL of water before and after enteral administration.
- Instruct the caregiver or patient that the total prescribed dose of XOFLUZA for oral suspension may require:
 - less than one bottle (e.g., for pediatric patients 5 years of age and older who weigh less than 20 kg)
 - one bottle (e.g., for adults and adolescents weighing 20 kg to less than 80 kg), or
 - two bottles (e.g., for adults and adolescents weighing at least 80 kg).

3 DOSAGE FORMS AND STRENGTHS

XOFLUZA Tablets:

XOFLUZA 40 mg tablets are white to light yellow, oblong-shaped, film-coated tablets debossed with "BXM40" on one side.

XOFLUZA 80 mg tablets are white to light yellow, oblong shaped, film-coated tablets debossed with "BXM80" on one side.

XOFLUZA for Oral Suspension:

XOFLUZA for oral suspension contains 40 mg/20 mL or 2 mg/mL baloxavir marboxil after constitution with 20 mL of drinking water or sterile water. The granules are white to light yellow. The constituted product is a greyish white, white to light yellow opaque suspension with strawberry flavor.

4 CONTRAINDICATIONS

XOFLUZA is contraindicated in patients with a history of hypersensitivity to baloxavir marboxil or any of its ingredients. Serious allergic reactions have included anaphylaxis, angioedema, urticaria, and erythema multiforme [*see Warnings and Precautions (5.1)*].

5 WARNINGS AND PRECAUTIONS

5.1 Hypersensitivity

Cases of anaphylaxis, urticaria, angioedema, and erythema multiforme have been reported in postmarketing experience with XOFLUZA. Appropriate treatment should be instituted if an allergic-like reaction occurs or is suspected. The use of XOFLUZA is contraindicated in patients with known hypersensitivity to XOFLUZA [*see Contraindications (4) and Adverse Reactions (6.2)*].

5.2 Increased Incidence of Treatment-Emergent Resistance in Patients Less Than 5 Years of Age

XOFLUZA is not indicated in patients less than 5 years of age due to increased incidence of treatment-emergent resistance in this age group. In clinical trials, the incidence of virus with treatment-emergent substitutions associated with reduced susceptibility to baloxavir (resistance) was higher in pediatric subjects younger than 5 years of age (43%, 36/83) than in pediatric subjects ≥ 5 years to < 12 years of age (16%, 19/117) or subjects ≥ 12 years of age (7%, 60/842). The potential for transmission of resistant strains in the community has not been determined [*see Indications and Usage (1), Use in Specific Populations (8.4), and Microbiology (12.4)*].

5.3 Risk of Bacterial Infections

There is no evidence of efficacy of XOFLUZA in any illness caused by pathogens other than influenza viruses. Serious bacterial infections may begin with influenza-like symptoms or may coexist with, or occur as, a complication of influenza. XOFLUZA has not been shown to prevent such complications. Prescribers should be alert to potential secondary bacterial infections and treat them as appropriate.

6 ADVERSE REACTIONS

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 practice.

The overall safety profile of XOFLUZA is based on data from 2,079 subjects, 5 years of age and older in 5 controlled clinical trials who received XOFLUZA. Of these subjects, 1,943 were adults and adolescents (≥ 12 years of age) and 136 were in the pediatric age group (5 to < 12 years of age) [see *Clinical Studies (14)*].

Treatment of Acute Uncomplicated Influenza

Adult and Adolescent Subjects (≥ 12 Years of Age):

The safety of XOFLUZA in adult and adolescent subjects is based on data from 3 placebo-controlled trials in which a total of 1,640 subjects received XOFLUZA: 1,334 (81%) subjects were 18 to 64 years of age, 209 (13%) subjects were adults 65 years of age or older, and 97 (6%) subjects were adolescents 12 to 17 years of age. These trials included otherwise healthy adults and adolescents (N=910) and subjects at high risk of developing complications associated with influenza (N=730). Of these, 1,440 subjects received XOFLUZA at the recommended dose [see *Clinical Studies (14.1, 14.2)*]. Trial T0821 was a phase 2 dose-finding placebo-controlled trial where otherwise healthy adult subjects 20 to 64 years of age received single oral dose of XOFLUZA or placebo. Trial T0831 was a placebo- and active-controlled trial in otherwise healthy adults and adolescents 12 to 64 years of age; subjects received weight-based XOFLUZA or placebo as a single oral dose on Day 1 or oseltamivir twice a day for 5 days. Trial T0832 was a randomized, double-blind, placebo- and active-controlled trial where adults and adolescents at high risk of influenza complications 12 years of age and older received either XOFLUZA, placebo or oseltamivir.

Table 3 displays the most common adverse events (regardless of causality assessment) reported in at least 1% of adult and adolescent subjects who received XOFLUZA at the recommended dose in Trials T0821, T0831, and T0832.

Table 3 Incidence of Adverse Events Occurring in at Least 1% of Adult and Adolescent Subjects Receiving XOFLUZA in the Acute Uncomplicated Influenza Trials T0821, T0831, and T0832

Adverse Event	XOFLUZA (N=1,440)	Placebo (N=1,136)
Diarrhea	3%	4%
Bronchitis	3%	4%
Nausea	2%	3%
Sinusitis	2%	3%
Headache	1%	1%

Pediatric Subjects (5 to < 12 Years of Age):

In an active-controlled, double-blind trial Trial CP40563 in pediatric subjects, a total of 79 subjects 5 to less than 12 years of age, received the recommended weight-based

dosage of XOFLUZA, and 39 subjects received oseltamivir. Of the 118 subjects 5 to less than 12 years of age in Trial CP40563, 15 subjects in the XOFLUZA arm and 4 subjects in the oseltamivir arm were at high risk of developing influenza complications. The most frequently reported AEs ($\geq 5\%$) in all subjects in the XOFLUZA treatment arm were vomiting (5%) and diarrhea (5%). Vomiting was reported in 18% of subjects in the oseltamivir arm [see *Clinical Studies (14.1)*]. There are limited safety data in patients 5 to <12 years at high risk of developing influenza complications.

Post-Exposure Prophylaxis of Influenza

In a placebo-controlled clinical trial, Trial T0834, conducted in adults, and pediatric subjects ≥ 5 years of age, a total of 360 subjects received XOFLUZA, of which 291 (81%) were adults ≥ 18 years; 12 (3%) subjects were adolescents ≥ 12 to 17 years and 57 (16%) were pediatric subjects 5 to < 12 years of age. The safety profile was similar in pediatric patients aged 5 to < 12 years old as that reported in adults and adolescents 12 years of age and older [see *Clinical Studies (14.3)*].

6.2 Postmarketing Experience

The following adverse reactions have been identified during postmarketing use of XOFLUZA. Because these reactions are reported voluntarily from a population of uncertain size, it is not possible to reliably estimate their frequency or establish a causal relationship to XOFLUZA exposure.

Immune System Disorders: Anaphylactic reactions, anaphylactic shock, anaphylactoid reactions, hypersensitivity reactions, angioedema (swelling of face, eyelids, tongue and lips)

Skin and Subcutaneous Tissue Disorders: Rash, urticaria, erythema multiforme

Gastrointestinal Disorders: Vomiting, hematochezia, melena, colitis

Psychiatric Disorders: Delirium, abnormal behavior, hallucinations

7 DRUG INTERACTIONS

7.1 Effect of Other Drugs on XOFLUZA

Baloxavir may form a chelate with polyvalent cations such as calcium, aluminum, or magnesium. Coadministration with polyvalent cation-containing products may decrease plasma concentrations of baloxavir [see *Clinical Pharmacology (12.3)*], which may reduce XOFLUZA efficacy. Avoid coadministration of XOFLUZA with dairy products, calcium-fortified beverages, polyvalent cation-containing laxatives, antacids, or oral supplements (e.g., calcium, iron, magnesium, selenium, or zinc).

7.2 Vaccines

The concurrent use of XOFLUZA with intranasal live attenuated influenza vaccine (LAIV) has not been evaluated. Concurrent administration of antiviral drugs may inhibit viral replication of LAIV and thereby decrease the effectiveness of LAIV vaccination. Interactions between inactivated influenza vaccines and XOFLUZA have not been evaluated.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

There are no adequate and well-controlled studies with XOFLUZA in pregnant women to inform a drug-associated risk of adverse developmental outcomes. There are risks to the mother and fetus associated with influenza virus infection in pregnancy (*see Clinical Considerations*). In animal reproduction studies, no adverse developmental effects were observed in rats or rabbits with oral administration of baloxavir marboxil at exposures approximately 5 (rats) and 7 (rabbits) times the systemic baloxavir exposure at the maximum recommended human dose (MRHD) (*see Data*).

The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. All pregnancies have a background risk of birth defects, loss, or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2%–4% and 15%–20%, respectively.

Clinical Considerations

Disease-Associated Maternal and/or Embryo/Fetal Risk

Pregnant women are at higher risk of severe complications from influenza, which may lead to adverse pregnancy and/or fetal outcomes, including maternal death, stillbirth, birth defects, preterm delivery, low birth weight, and small for gestational age.

Data

Animal Data

Baloxavir marboxil was administered orally to pregnant rats (20, 200, or 1,000 mg/kg/day from gestation day 6 to 17) and rabbits (30, 100, or 1,000 mg/kg/day from gestation day 7 to 19). No adverse embryo-fetal effects were observed in rats up to the highest dose of baloxavir marboxil (1,000 mg/kg/day), resulting in systemic baloxavir exposure (AUC) of approximately 5 times the exposure at the MRHD. In rabbits, fetal skeletal variations occurred at a maternally toxic dose (1,000 mg/kg/day) resulting in 2 abortions out of 19 pregnancies. No adverse maternal or embryo-fetal effects were observed in rabbits at the middle dose (100 mg/kg/day) resulting in systemic baloxavir exposure (AUC) approximately 7 times the exposure at the MRHD.

In the prenatal and postnatal development study in rats, baloxavir marboxil was administered orally at 20, 200, or 1,000 mg/kg/day from gestation day 6 to postpartum/lactation day 20. No significant effects were observed in the offspring at maternal systemic baloxavir exposure (AUC) approximately 5 times the exposure at the MRHD.

8.2 Lactation

Risk Summary

There are no data on the presence of baloxavir marboxil in human milk, the effects on the breastfed infant, or the effects on milk production. Baloxavir and its related metabolites were present in 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 XOFLUZA and any potential adverse effects on the breastfed child from the drug or from the underlying maternal condition.

Data

In a lactation study, baloxavir and its related metabolites were excreted in the milk of lactating rats administered baloxavir marboxil (1 mg/kg) on postpartum/lactation day 11, with peak milk concentration approximately 5 times that of maternal plasma concentrations occurring 2 hours post-dose. No effects of baloxavir marboxil on growth and postnatal development were observed in nursing pups at the highest oral dose tested in rats. Maternal systemic exposure was approximately 5 times the baloxavir exposure in humans at the MRHD.

8.4 Pediatric Use

Treatment of Acute Uncomplicated Influenza in Adolescent Subjects (≥ 12 Years of Age)

The safety and effectiveness of XOFLUZA for the treatment of acute uncomplicated influenza in adolescent subjects 12 years of age and older weighing at least 40 kg is supported by one randomized, double-blind, controlled trial in otherwise healthy subjects Trial T0831 and one trial in subjects at high risk of developing influenza-related complications Trial T0832 [see *Clinical Studies (14.1)*]. A total of 117 otherwise healthy adolescents 12 to 17 years of age were randomized and received either XOFLUZA (N=76) or placebo (N=41) in Trial T0831; 38 adolescents 12 to 17 years of age at high risk for influenza complications were randomized and received either XOFLUZA (N=21) or placebo (N=17) in Trial T0832. The median time to alleviation of symptoms in influenza-infected adolescent subjects aged 12 to 17 years in Trial T0831 was comparable to that observed in adults. In Trial T0832, the median time to improvement of symptoms in the limited number of influenza-infected adolescent subjects aged 12 to 17 years was similar in the XOFLUZA and placebo arms [see *Clinical Studies (14.1)*]. Adverse events reported in adolescents in both trials were similar to those reported in adults [see *Adverse Reactions (6.1)*].

Treatment of Acute Uncomplicated Influenza in Pediatric Subjects (5 to < 12 Years of Age)

The safety and effectiveness of XOFLUZA in pediatric subjects 5 to less than 12 years of age is supported by one randomized, double-blind, controlled trial Trial CP40563 with a primary endpoint of safety. In this trial, 118 pediatric subjects were randomized and treated in a 2:1 ratio and received either XOFLUZA (N=79) or oseltamivir (N=39). Efficacy was extrapolated from adults and adolescents based on comparable PK exposures in adults, adolescents and pediatric subjects 5 to less than 12 years of age. The median time to alleviation of signs and symptoms in influenza-infected subjects was comparable in the XOFLUZA and oseltamivir arms. Adverse events reported with XOFLUZA in pediatric subjects were similar to those observed in adults and adolescents except for vomiting and diarrhea, which were both more commonly reported in pediatric subjects [see *Adverse Reactions (6.1)*, *Clinical Pharmacology (12.3)*, and *Clinical Studies (14.1)*].

Post-Exposure Prophylaxis of Influenza in Pediatric and Adolescent Subjects (5 to < 18 Years of Age)

The safety and effectiveness of XOFLUZA for post-exposure prophylaxis in pediatric and adolescent subjects 5 to less than 18 years of age is supported by one randomized,

double-blind, controlled trial conducted in Japan Trial T0834 [see *Clinical Studies (14.3)*]. Subjects in this trial were randomized in a 1:1 ratio to receive XOFLUZA or placebo. A total of 69 subjects from 5 to <18 years of age in Trial T0834 received XOFLUZA. The incidence of RT-PCR-confirmed symptomatic influenza in pediatric subjects 5 to <18 years of age was similar to that observed in adult subjects [see *Clinical Pharmacology (12.3)*, and *Clinical Studies (14.3)*]. Efficacy was extrapolated from adults based on comparable PK exposures in adults, adolescents and pediatric subjects 5 to <18 years of age.

Adverse events reported in pediatric and adolescent subjects were similar to those reported in adults in the same trial [see *Adverse Reactions (6.1)*].

Pediatric Subjects (< 5 Years of Age)

The safety and effectiveness of XOFLUZA for treatment and post-exposure prophylaxis of influenza in pediatric subjects less than 5 years of age have not been established [see *Warnings and Precautions (5.2)* and *Microbiology (12.4)*].

8.5 Geriatric Use

The safety and effectiveness of XOFLUZA in subjects 65 years of age and older has been established and is supported by one randomized, double-blind, controlled trial [see *Clinical Studies (14.2)*]. In Trial T0832, of 730 XOFLUZA-treated subjects at high risk of influenza-related complications, 209 (29%) subjects were 65 years of age and older. The median time to improvement of influenza symptoms in subjects 65 years of age and older was 70 hours in subjects who received XOFLUZA (N=112) and 88 hours in those who received placebo (N=102). The safety profile observed for this population was similar to that reported in the overall trial population except for nausea, which was reported in 6% of elderly subjects compared to 1% of subjects from 18 to 64 years of age.

10 OVERDOSAGE

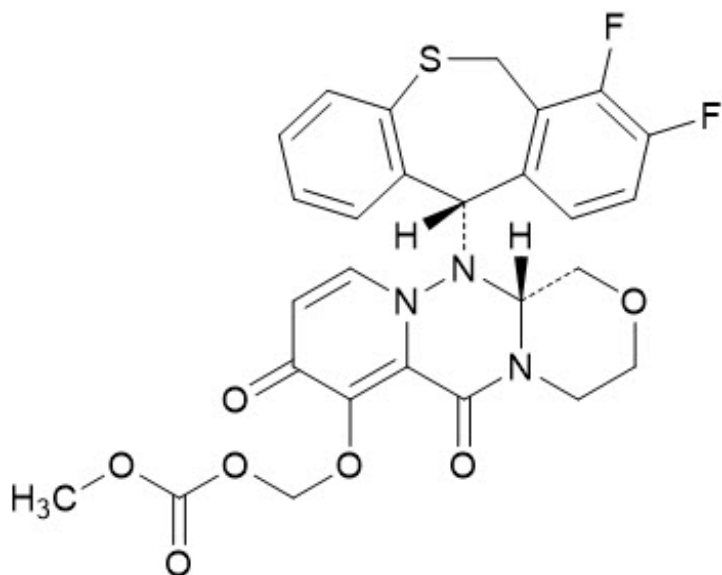
Treatment of an overdose of XOFLUZA should consist of general supportive measures, including monitoring of vital signs and observation of the clinical status of the patient. There is no specific antidote for overdose with XOFLUZA.

Baloxavir is unlikely to be significantly removed by dialysis due to high serum protein binding [see *Clinical Pharmacology (12.3)*].

11 DESCRIPTION

XOFLUZA (baloxavir marboxil) is an influenza virus PA endonuclease inhibitor.

The active component of XOFLUZA is baloxavir marboxil. The chemical name of baloxavir marboxil is ({(12aR)-12-[(11S)-7,8-Difluoro-6,11-dihydrodibenzo[b,e]thiepin-11-yl]-6,8-dioxo-3,4,6,8,12,12a-hexahydro-1H-[1,4]oxazino[3,4-c]pyrido[2,1-f][1,2,4]triazin-7-yl}oxy)methyl methyl carbonate. The empirical formula of baloxavir marboxil is C₂₇H₂₃F₂N₃O₇S, and the chemical structure is shown below.



Baloxavir marboxil has a molecular mass of 571.55 grams per mole and a partition coefficient (log P) of 2.26. It is freely soluble in dimethylsulfoxide, soluble in acetonitrile, slightly soluble in methanol and ethanol, and practically insoluble in water.

XOFLUZA is supplied as tablets and as granules for oral suspension:

XOFLUZA tablets are white to light yellow, film-coated tablets for oral administration. The 40 mg film-coated tablet contains 40 mg of baloxavir marboxil and the 80 mg film-coated tablet contains 80 mg of baloxavir marboxil. The inactive ingredients of XOFLUZA tablets are: croscarmellose sodium, hypromellose, lactose monohydrate, microcrystalline cellulose, povidone, sodium stearyl fumarate, talc, and titanium dioxide.

XOFLUZA for oral suspension is supplied as white to light yellow granules in an amber glass bottle. Each bottle contains 40 mg (nominal) of baloxavir marboxil. The granules must be constituted with 20 mL of drinking water or sterile water to yield a 2 mg/mL greyish white, white to light yellow opaque suspension with strawberry flavor. The inactive ingredients are: colloidal silicon dioxide, hypromellose, maltitol, mannitol, povidone K25, sodium chloride, strawberry flavor, sucralose and talc.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Baloxavir marboxil is an antiviral drug with activity against influenza virus [see *Microbiology (12.4)*].

12.2 Pharmacodynamics

Cardiac Electrophysiology

At twice the expected exposure from recommended dosing, XOFLUZA did not prolong the QTc interval.

Exposure-Response Relationships

In patients 5 years of age and older, when XOFLUZA is dosed by weight as recommended, a flat baloxavir exposure-response (time to alleviation of influenza

symptoms) relationship has been observed.

12.3 Pharmacokinetics

Baloxavir marboxil is a prodrug that is almost completely converted to its active metabolite, baloxavir, following oral administration.

Baloxavir pharmacokinetic parameters are presented for healthy adults and adolescents as the mean [% coefficient of variation (%CV)], unless otherwise specified, in Table 4. Absorption, distribution, metabolism, and elimination data for XOFLUZA is presented in Table 5.

Table 4 Pharmacokinetic Parameters of Plasma Baloxavir in Adults and Adolescents (≥ 12 Years of Age)

Pharmacokinetic Parameters of Plasma Baloxavir in Adults and Adolescents*	XOFLUZA dose 40 mg	XOFLUZA dose 80 mg
AUC (ng•hr/mL)	5520 (46.3%)	6930 (48.6%)
C _{max} (ng/mL)	68.9 (44.9%)	82.5 (43.0%)
C ₂₄ (ng/mL)	50.9 (45.8%)	62.6 (45.9%)
C ₇₂ (ng/mL)	24.2 (45.5%)	30.8 (47.0%)

* Trial T0831 summary data, mean (%CV)

Table 5 Baloxavir Absorption, Distribution, Metabolism, Elimination Data

Absorption	
T _{max} (hr)*	4
Effect of food (relative to fasting)†	C _{max} : ↓48%, AUC _{0-inf} : ↓36%
Distribution	
% bound to human serum proteins‡	92.9–93.9
Ratio of blood cell to blood	48.5%–54.4%
Volume of distribution (V/F, L)§	1180 (20.8%)
Elimination	
Clearance (CL/F, L/hr)	10.3 (22.5%)
Apparent terminal elimination half-life (hr)	79.1 (22.4%)
Metabolism	
Metabolic pathways	Primary: UGT1A3 Secondary: CYP3A4
Excretion	
% of dose excreted¶	Urine: 14.7 (total radioactivity); 3.3 (baloxavir) Feces: 80.1 (total radioactivity)

* Median

- † Meal: approximately 400 to 500 kcal including 150 kcal from fat
- ‡ *in vitro*
- § Geometric mean (geometric CV%)
- ¶ Ratio of radioactivity to radio-labeled baloxavir marboxil dose in mass balance study

No clinically significant differences in the pharmacokinetics of baloxavir were observed based on age, sex, presence of risk factors for complicated influenza, creatinine clearance (CrCl: 50 mL/min and above), or moderate hepatic impairment (Child-Pugh class B). The effect of severe renal or hepatic impairment on baloxavir pharmacokinetics has not been evaluated.

Pediatrics (5 to < 12 Years of Age)

Mean (CV%) baloxavir pharmacokinetics in pediatric subjects 5 to < 12 years of age are described in Table 6. Following the approved recommended dosage, baloxavir exposures are similar in pediatric subjects (5 to < 12 years of age) compared to adult and adolescent subjects.

Table 6 Pharmacokinetic Parameters of Plasma Baloxavir in Pediatrics (5 to < 12 Years of Age)

Pharmacokinetic Parameters of Plasma Baloxavir in Pediatrics*	XOFLUZA Dose for Subjects Weighing < 20 kg (n=8) 2 mg/kg	XOFLUZA Dose for Subjects Weighing ≥ 20 kg (n=55) 40 mg
AUC _{inf} (ng.h/mL)	5830 (48.5)	4360 (48.9)
C _{max} (ng/mL)	148 (48.7)	81.1 (44.0)
T _{max} (h) [†]	3.5 (2-5.5)	4.5 (2-23.5)
C ₂₄ (ng/mL)	77.9 (49.2)	52.4 (43.2)
C ₇₂ (ng/mL)	19.3 (49.7)	18.0 (50.9)

* Trial CP40563 summary data, mean (%CV); patients not receiving the recommended dose (n=3) were excluded

† Median (range)

Body Weight

Baloxavir exposure decreases as body weight increases. No clinically significant difference in exposure was observed between body weight groups in adult and pediatric subjects following the approved recommended dosage.

Race/Ethnicity

Based on a population pharmacokinetic analysis, baloxavir exposure is approximately 35% lower in non-Asians as compared to Asians; this difference is not considered clinically significant when the recommended dose was administered.

Drug Interaction Studies

Clinical Studies

No clinically significant changes in the pharmacokinetics of baloxavir marboxil and its

active metabolite, baloxavir, were observed when coadministered with itraconazole (combined strong CYP3A and P-gp inhibitor), probenecid (UGT inhibitor), or oseltamivir.

No clinically significant changes in the pharmacokinetics of the following drugs were observed when coadministered with baloxavir marboxil: midazolam (CYP3A4 substrate), digoxin (P-gp substrate), rosuvastatin (BCRP substrate), or oseltamivir.

Animal Studies

Polyvalent Cations: In monkeys, a 48% to 63% decrease in baloxavir exposure was observed when XOFLUZA was coadministered with calcium, aluminum, magnesium, or iron. No study has been conducted in humans.

In Vitro Studies

Cytochrome P450 (CYP) Enzymes: Both baloxavir marboxil and baloxavir do not inhibit CYP1A2, CYP2B6, CYP2C8, CYP2C9, CYP2C19, or CYP2D6 and do not induce CYP1A2, CYP2B6, or CYP3A4.

Uridine diphosphate (UDP)-glucuronosyl transferase (UGT) Enzymes: Both baloxavir marboxil and baloxavir do not inhibit UGT1A1, UGT1A3, UGT1A4, UGT1A6, UGT1A9, UGT2B7, or UGT2B15.

Transporter Systems: Both baloxavir marboxil and baloxavir are substrates of P-glycoprotein (P-gp). Baloxavir does not inhibit organic anion-transporting polypeptides (OATP) 1B1, OATP1B3, organic cation transporter (OCT) 1, OCT2, organic anion transporter (OAT) 1, OAT3, multidrug and toxin extrusion (MATE) 1, or MATE2K.

12.4 Microbiology

Mechanism of Action

Baloxavir marboxil is a prodrug that is converted by hydrolysis to baloxavir, the active form that exerts anti-influenza virus activity. Baloxavir inhibits the endonuclease activity of the polymerase acidic (PA) protein, an influenza virus-specific enzyme in the viral RNA polymerase complex required for viral gene transcription, resulting in inhibition of influenza virus replication. The 50% inhibitory concentration (IC₅₀) values of baloxavir ranged from 1.4 to 3.1 nM (n=4) for influenza A viruses and 4.5 to 8.9 nM (n=3) for influenza B viruses in a PA endonuclease assay. Viruses with reduced susceptibility to baloxavir have amino acid substitutions in the PA protein.

Antiviral Activity

The antiviral activity of baloxavir against laboratory strains and clinical isolates of influenza A and B viruses was determined in an MDCK cell-based plaque reduction assay. The median 50% effective concentration (EC₅₀) values of baloxavir were 0.73 nM (n=31; range: 0.20–1.85 nM) for subtype A/H1N1 strains, 0.83 nM (n=33; range: 0.35–2.63 nM) for subtype A/H3N2 strains, and 5.97 nM (n=30; range: 2.67–14.23 nM) for type B strains. In an MDCK cell-based virus titer reduction assay, the 90% effective concentration (EC₉₀) values of baloxavir against avian subtypes A/H5N1 and A/H7N9 were in the range of 0.80 to 3.16 nM. The relationship between antiviral activity in cell culture and clinical response to treatment in humans has not been established.

Resistance

Cell Culture

Influenza A virus isolates with reduced susceptibility to baloxavir were selected by serial passage of virus in cell culture in the presence of increasing concentrations of baloxavir. Reduced susceptibility of influenza A virus to baloxavir was conferred by amino acid substitutions I38T (A/H1N1 and A/H3N2), E198K (A/H1N1) and E199G (A/H3N2) in the PA protein of the viral RNA polymerase complex. An E18G (A/H1N1) substitution in the PA protein, selected by a baloxavir analog, also conferred reduced susceptibility to baloxavir.

Clinical Studies

Treatment-emergent substitutions were identified in influenza A and B viruses in clinical studies. Substitutions associated with a >3-fold reduction in susceptibility to baloxavir are shown in Table 7.

Table 7 Treatment-Emergent Amino Acid Substitutions in PA Associated with Reduced Susceptibility to Baloxavir Identified in Clinical Specimens

Influenza Type/Subtype	A/H1N1	A/H3N2	B
Amino Acid Substitution	E23G/K/R, A37T, I38F/N/S/T	E23G/K, A37T, I38M/T, E199G	T20K, I38T

Clinical studies in adult and adolescent subjects ≥ 12 years of age:

In adult and adolescent subjects who had a confirmed influenza virus infection, the overall frequencies of treatment-emergent amino acid substitutions associated with reduced susceptibility to baloxavir were 5% (6/134), 11% (53/485), and 1% (2/224) in influenza A/H1N1, A/H3N2, and B virus infections, respectively, in pooled data from Trials T0821, T0831, and T0832 [see *Clinical Studies (14)*]. In Trial T0834, of 303 subjects ≥ 12 years of age who received XOFLUZA post-exposure prophylaxis, 32 were viral RNA-positive post-baseline, including 17 subjects who were evaluated for resistance. Of these 17 subjects, influenza virus with substitutions associated with reduced susceptibility to baloxavir was identified in 4/4 subjects who developed clinical influenza (as described for the primary endpoint) and 6/13 other subjects evaluated who did not meet the primary endpoint definition for clinical influenza [see *Clinical Studies (14)*].

Clinical studies in pediatric subjects 5 to < 12 years of age:

Selection of influenza viruses with treatment-emergent amino acid substitutions associated with reduced susceptibility to baloxavir has occurred at higher frequencies in pediatric subjects 5 to <12 years of age compared to subjects ≥ 12 years of age. Such viruses were detected with overall frequencies of 17% (2/12), 18% (17/93), and 0% (0/13) in influenza A/H1N1, A/H3N2, and B virus infections, respectively, in pooled data from 4 pediatric treatment trials in subjects 5 to < 12 years of age.

In Trial T0834, of a subgroup of 57 subjects 5 to < 12 years of age who received XOFLUZA post-exposure prophylaxis, 12 were viral-RNA positive post-baseline, including 10 subjects who were evaluated for resistance. Of these 10 subjects, influenza virus with substitutions associated with reduced susceptibility to baloxavir was identified in 2/2 subjects who developed clinical influenza (as described for the primary endpoint) and 1/8

other subjects who did not meet the primary endpoint definition for clinical influenza [see *Clinical Studies (14)*].

Clinical studies in pediatric subjects < 5 years of age:

The highest frequencies of treatment-emergent resistance have been observed in pediatric subjects < 5 years of age. In treatment trials in subjects < 5 years of age, treatment-emergent amino acid substitutions associated with reduced susceptibility to baloxavir occurred in 24% (4/17), 65% (32/49), and 0% (0/17) of influenza A/H1N1, A/H3N2, and B virus infections, respectively, in pooled data from 4 pediatric treatment trials.

Surveillance Studies

Amino acid substitutions associated with reduced susceptibility to baloxavir have also been identified in surveillance studies or in cell culture studies evaluating the impact of resistance substitutions identified in one influenza virus type/subtype on baloxavir susceptibility when introduced into other influenza virus types/subtypes (Table 8).

Table 8 Amino Acid Substitutions in PA Associated with Reduced Susceptibility to Baloxavir Identified in Surveillance and in Cell Culture Resistance Studies

Influenza Type/Subtype	A/H1N1	A/H3N2	B
Amino Acid Substitution	A36V*, I38L*/M†	E23R†, A36V†, I38F†/N†/S†	I38F†/M†/N†/S†

* Identified in human surveillance isolates, antiviral treatment unknown

† Known substitution associated with reduced susceptibility to baloxavir identified in clinical specimens or surveillance isolates but evaluated in the indicated alternative type/subtype by reverse genetics

None of the treatment-emergent substitutions associated with reduced susceptibility to baloxavir were identified in virus from pretreatment respiratory specimens in the clinical studies.

Treatment-emergent resistance has been associated with influenza virus rebound and prolonged virus shedding; however, the impact of prolonged shedding on clinical outcomes and virus transmission potential is currently unknown.

The frequency of baloxavir resistance and the prevalence of such resistant virus may vary seasonally and geographically. Prescribers should consider available information from the U.S. CDC and/or a local health department on current influenza virus drug susceptibility patterns and treatment effects when deciding whether to use XOFLUZA.

Cross-Resistance

Cross-resistance between baloxavir and neuraminidase (NA) inhibitors, or between baloxavir and M2 proton pump inhibitors (adamantanes), is not expected because these drugs target different viral proteins. The NA inhibitor oseltamivir is active against viruses with reduced susceptibility to baloxavir, including A/H1N1 virus with PA substitutions E23K or I38F/T; A/H3N2 virus with PA substitutions E23G/K, A37T, I38M/T, or E199G; and type B virus with the PA substitution I38T. Influenza virus may carry amino acid substitutions in PA that reduce susceptibility to baloxavir and at the same time carry

resistance-associated substitutions for NA inhibitors and M2 proton pump inhibitors.

Baloxavir is active against NA inhibitor-resistant strains, including A/H1N1 and A/H5N1 viruses with the NA substitution H275Y (A/H1N1 numbering), A/H3N2 virus with the NA substitutions E119V or R292K, A/H7N9 virus with the NA substitution R292K (A/H3N2 numbering), and type B virus with the NA substitutions R152K or D198E (A/H3N2 numbering). The clinical relevance of phenotypic cross-resistance evaluations has not been established.

Immune Response

Interaction studies with influenza vaccines and baloxavir marboxil have not been conducted.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis

Carcinogenicity studies have not been performed with baloxavir marboxil.

Mutagenesis

Baloxavir marboxil and the active metabolite, baloxavir, were not mutagenic in *in vitro* and in *in vivo* genotoxicity assays, which included bacterial mutation assays in *S. typhimurium* and *E. coli*, micronucleus tests with cultured mammalian cells, and in the rodent micronucleus assay.

Impairment of Fertility

In a fertility and early embryonic development study in rats, doses of baloxavir marboxil at 20, 200, or 1,000 mg/kg/day were administered to females for 2 weeks before mating, during mating, and until day 7 of pregnancy. Males were dosed for 4 weeks before mating and throughout mating. There were no effects on fertility, mating performance, or early embryonic development at any dose level, resulting in systemic drug exposure (AUC) approximately 5 times the MRHD.

14 CLINICAL STUDIES

14.1 Treatment of Acute Uncomplicated Influenza—Otherwise Healthy Subjects (12 Years of Age and Older)

Two randomized, controlled, double-blinded clinical trials conducted in two different influenza seasons evaluated efficacy and safety of XOFLUZA in otherwise healthy subjects with acute uncomplicated influenza.

In Trial T0821, a placebo-controlled phase 2 dose-finding trial, a single oral dose of XOFLUZA was compared with placebo in 400 adult subjects 20 to 64 years of age in Japan. All subjects in Trial T0821 were Asian, the majority of subjects were male (62%), and the mean age was 38 years. In this trial, among subjects who received XOFLUZA and had influenza virus typed, influenza A/H1N1 was the predominant strain (63%), followed by influenza B (25%), and influenza A/H3N2 (12%).

In Trial T0831 (NCT02954354), a phase 3, randomized, double-blind, active- and placebo-controlled trial, XOFLUZA was studied in 1,436 otherwise healthy adults and adolescents with signs and symptoms of influenza in the U.S. and Japan. Subjects were 12 to 64 years of age and weighed at least 40 kg. Adults aged 20 to 64 years received weight-based XOFLUZA (subjects who weighed 40 to less than 80 kg received 40 mg and subjects who weighed 80 kg and above received 80 mg) (N=612) or placebo as a single oral dose on day 1 (N=310) or oseltamivir twice a day for 5 days (N=514). Subjects in the XOFLUZA and placebo arms received a placebo for the duration of oseltamivir dosing after XOFLUZA or placebo dosing in that arm. Adolescent subjects 12 to less than 20 years of age received weight-based XOFLUZA or placebo as a single oral dose.

Seventy-eight percent of subjects in Trial T0831 were Asian, 17% were White, and 4% were Black or African American. The mean age was 34 years, and 11% of subjects were less than 20 years of age; 54% of subjects were male and 46% female. In Trial T0831, 1,062 of 1,436 enrolled subjects had influenza confirmed by RT-PCR and were included in the efficacy analysis (XOFLUZA N=455, placebo N=230, or oseltamivir N=377). Among subjects who received XOFLUZA and had influenza virus typed, influenza A/H3N2 was the predominant strain (90%), followed by influenza B (9%), and influenza A/H1N1 (2%).

In both Trials T0821 and T0831, eligible subjects had an axillary temperature of at least 38°C, at least one moderate or severe respiratory symptom (cough, nasal congestion, or sore throat), and at least one moderate or severe systemic symptom (headache, feverishness or chills, muscle or joint pain, or fatigue), and all were treated within 48 hours of symptom onset. Subjects participating in the trial were required to self-assess their influenza symptoms as "none," "mild," "moderate," or "severe" twice daily. The primary efficacy population was defined as those with a positive rapid influenza diagnostic test (Trial T0821) or positive influenza reverse transcription polymerase chain reaction (RT-PCR) (Trial T0831) at trial entry.

The primary endpoint of both trials, time to alleviation of symptoms, was defined as the time when all seven symptoms (cough, sore throat, nasal congestion, headache, feverishness, myalgia, and fatigue) had been assessed by the subject as none or mild for a duration of at least 21.5 hours.

In both trials, XOFLUZA treatment at the recommended dose resulted in a statistically significant shorter time to alleviation of symptoms compared with placebo in the primary efficacy population (Tables 9 and 10).

Table 9 Time to Alleviation of Symptoms After Single Dose in Otherwise Healthy Adults with Acute Uncomplicated Influenza in Trial T0821 (Median Hours)

	XOFLUZA 40 mg (95% CI*) N=100	Placebo (95% CI*) N=100
Adults (20 to 64 Years of Age)	50 hours [†] (45, 64)	78 hours (68, 89)

* CI: Confidence interval

† XOFLUZA treatment resulted in a statistically significant shorter time to alleviation of symptoms compared to placebo using the Gehan-Breslow's

generalized Wilcoxon test (p-value: 0.014, adjusted for multiplicity using the Bonferroni method). The primary analysis using the Cox Proportional Hazards Model did not reach statistical significance (p-value: 0.165).

Table 10 Time to Alleviation of Symptoms After Single Dose in Otherwise Healthy Subjects 12 Years of Age and Older with Acute Uncomplicated Influenza in Trial T0831 (Median Hours)

	XOFLUZA 40 mg or 80 mg (95% CI*) N=455	Placebo (95% CI*) N=230
Subjects (≥ 12 Years of Age)	54 hours [†] (50, 59)	80 hours (73, 87)

* CI: Confidence interval

† XOFLUZA treatment resulted in a statistically significant shorter time to alleviation of symptoms compared to placebo using the Peto-Prentice's generalized Wilcoxon test (p-value: < 0.001).

In Trial T0831, there was no difference in the time to alleviation of symptoms between subjects (age ≥ 20 years) who received XOFLUZA (54 hours) and those who received oseltamivir (54 hours). For adolescent subjects (12 to 17 years of age) in Trial T0831, the median time to alleviation of symptoms for subjects infected with influenza and who received XOFLUZA (N=63) was 54 hours (95% CI of 43, 81) compared to 93 hours (95% CI of 64, 118) in the placebo arm (N=27).

The number of subjects who received XOFLUZA at the recommended dose and who were infected with influenza type B virus was limited, including 24 subjects in Trial T0821 and 38 subjects in Trial T0831. In the influenza B subset in Trial T0821, the median time to alleviation of symptoms in subjects who received 40 mg XOFLUZA was 63 hours (95% CI of 43, 70) compared to 83 hours (95% CI of 58, 93) in subjects who received placebo. In the influenza B subset in Trial T0831, the median time to alleviation of symptoms in subjects who received 40 mg or 80 mg XOFLUZA was 93 hours (95% CI of 53, 135) compared to 77 hours (95% CI of 47, 189) in subjects who received placebo.

14.2 Treatment of Acute Uncomplicated Influenza—High Risk Subjects (12 Years of Age and Older)

Trial T0832 (NCT02949011) was a randomized, double-blind, placebo- and active-controlled trial to evaluate the efficacy and safety of a single oral dose of XOFLUZA compared with placebo or oseltamivir in adult and adolescent subjects 12 years of age or older with influenza who were at high risk of developing influenza-related complications.

A total of 2,182 subjects with signs and symptoms of influenza were randomized to receive a single oral dose of 40 mg or 80 mg of XOFLUZA according to body weight (subjects who weighed 40 to less than 80 kg received 40 mg and subjects who weighed 80 kg and above received 80 mg) (N=729), oseltamivir 75 mg twice daily for 5 days (N=725), or placebo (N=728). Twenty-eight percent of subjects were Asian, 59% were White, and 10% were Black or African American. The mean age was 52 years, and 3% of

subjects were less than 18 years of age; 43% of subjects were male and 57% female.

High risk factors were based on the Centers for Disease Control and Prevention definition¹ of health factors known to increase the risk of developing serious complications from influenza. The majority of subjects had underlying asthma or chronic lung disease, diabetes, heart disease, morbid obesity, or were 65 years of age or older.

In Trial T0832, 1,158 of the 2,182 enrolled subjects had influenza confirmed by RT-PCR and were included in the efficacy analysis (XOFLUZA N=385, placebo N=385, or oseltamivir N=388). Among subjects in whom only one type/subtype of influenza virus was identified, 50% were infected with subtype A/H3N2, 43% were infected with type B, and 7% were infected with subtype A/H1N1.

Eligible subjects had an axillary temperature of at least 38°C, at least one moderate or severe respiratory symptom (cough, nasal congestion, or sore throat), and at least one moderate or severe systemic symptom (headache, feverishness or chills, muscle or joint pain, or fatigue), and all were treated within 48 hours of symptom onset. Subjects participating in the trial were required to self-assess their influenza symptoms as "none," "mild," "moderate," or "severe" twice daily. A total of 215 subjects (19%) had preexisting symptoms (cough, muscle or joint pain, or fatigue) associated with their underlying high risk condition that were worsened due to influenza infection. The primary efficacy endpoint was time to improvement of influenza symptoms (cough, sore throat, headache, nasal congestion, feverishness or chills, muscle or joint pain, and fatigue). This endpoint included alleviation of new symptoms and improvement of any preexisting symptoms that had worsened due to influenza. A statistically significant improvement in the primary endpoint was observed for XOFLUZA when compared with placebo (see Table 11).

Table 11 Time to Improvement of Symptoms After Single Dose in High Risk Subjects 12 Years of Age and Older with Acute Uncomplicated Influenza in Trial T0832 (Median Hours)

XOFLUZA 40 mg or 80 mg* (95% CI)[†] N=385	Placebo (95% CI)[†] N=385
73 hours [‡] (67, 85)	102 hours [‡] (93, 113)

* The dosage of XOFLUZA was based on subject's weight.

† CI: Confidence interval

‡ XOFLUZA treatment resulted in a significant reduction in Time to Improvement of Influenza Symptoms compared to placebo using Peto-Prentice's generalized Wilcoxon test (p-value: < 0.001).

There was no statistically significant difference in the median time to improvement of influenza symptoms in the subjects who received XOFLUZA (73 hours) and those who received oseltamivir (81 hours). The median time to improvement of influenza symptoms in the limited number of adolescent subjects aged 12 to 17 years infected with influenza virus was similar for subjects who received XOFLUZA (188 hours) or placebo (191 hours) (N=13 and N=12, respectively).

For subjects infected with type B virus, the median time to improvement of influenza

symptoms was 75 hours in the XOFLUZA group (95% CI of 67, 90) compared to 101 hours in the placebo group (95% CI of 83, 116).

14.3 Treatment of Acute Uncomplicated Influenza—Otherwise Healthy and High-Risk Pediatric Subjects (5 to < 12 Years of Age)

Trial CP40563 (NCT03629184) was a randomized, double-blind, multicenter, active-controlled trial, designed to evaluate the safety, efficacy, and pharmacokinetics of a single oral dose of XOFLUZA compared with oseltamivir in otherwise healthy pediatric subjects (including subjects aged 5 to < 12 years of age) with influenza-like symptoms. Eligible subjects had a tympanic temperature of at least 38°C and at least one respiratory symptom of either cough or nasal congestion.

A total of 118 subjects 5 to less than 12 years of age were randomized and received a single one-time oral dose of XOFLUZA (N=79) based on body weight (2 mg/kg for subjects weighing < 20 kg or 40 mg for subjects weighing ≥ 20 kg) or oseltamivir (N=39) for 5 days (dose based on body weight). Subjects at high risk of developing complications associated with influenza were included in the trial [16% (19/118)]. The primary objective was to compare the safety of a single one-time dose of XOFLUZA with 5 days of oseltamivir administered twice daily. The secondary efficacy endpoint included time to alleviation of influenza signs and symptoms, which was defined as the time when all of the following were met for at least 21.5 hours: cough and nasal symptoms were assessed by the caregiver as no problem or minor problem, subject was able to return to normal daily activity, and subject was afebrile (temperature ≤ 37.2°C). However, the trial was not powered to detect statistically significant differences in this secondary endpoint.

Of the 118 randomized subjects 5 to less than 12 years of age in Trial CP40563, 94 subjects had influenza confirmed by RT-PCR at baseline or during the trial; 89% percent of subjects were White, 3% Black or African American and 8% Other/unknown/multiple races. The mean age was 8 years [SD=1.97]; 56% of subjects were female and 44% male. The predominant influenza virus strain in this trial was the A/H3N2 subtype (67%), followed by A/H1N1 (20%) and type B (9%).

The median time to alleviation of influenza signs and symptoms was 138 hours in the XOFLUZA arm (95% CI of 117, 163) and 126 hours in the oseltamivir arm (95% CI of 96, 166).

14.4 Post-Exposure Prophylaxis of Influenza (5 Years of Age and Older)

Trial T0834 was a phase 3, randomized, double-blind, multicenter, placebo-controlled trial designed to evaluate the efficacy of a single oral dose of XOFLUZA compared with placebo in the prevention of influenza in subjects who were household contacts of influenza-infected patients in Japan. Influenza-infected index patients were required to have onset of symptoms for ≤ 48 hours, and subjects (household contacts) were required to have lived with the influenza-infected index patient for ≥ 48 hours.

A total of 715 subjects (XOFLUZA N=360, placebo N=355) 5 years of age and older were randomized and received a single oral dose of XOFLUZA according to body weight and age, or placebo, on Day 1. Subjects received a single dose of XOFLUZA according to body weight. The primary efficacy endpoint was the proportion of household subjects who were infected with influenza virus and presented with fever and at least one respiratory symptom from day 1 to day 10. Influenza infection was confirmed by RT-

PCR, fever was defined as a body temperature (axillary) $\geq 37.5^{\circ}\text{C}$, and respiratory symptoms were defined as having a symptom of "cough" or "nasal discharge/nasal congestion" with a severity of moderate or severe as assessed by the subject.

The mean age of subjects that were ≥ 5 years of age in Trial T0834 was 35 years; 108 (15%) were 5 to < 12 years, 33 (5%) were ≥ 12 to < 18 years of age, 551 (77%) were ≥ 18 to < 65 years of age, and 23 (3%) were ≥ 65 years of age. All subjects were Asian, 80% were female, and 20% were male.

In subjects that were 5 years of age and older, there was a statistically significant reduction in the proportion of household contacts (subjects) with laboratory-confirmed clinical influenza from 13% in the placebo group to 2% in the XOFLUZA group (see Table 12).

Table 12 Proportion of Household Contacts (Subjects 5 Years of Age and Older) Infected with Influenza Virus with Fever and at Least One Respiratory Symptom (Trial T0834)

XOFLUZA (95% CI*) N=360	Placebo (95% CI*) N=355
6 (2%) (1%, 4%)	47 (13%) (10%, 17%)

* CI: Confidence interval (%)

XOFLUZA treatment resulted in a significant reduction in the risk ratio of patients who were infected with influenza virus and presented with fever compared to placebo using modified Poisson regression for a binary response (p-value: < 0.0001).

In the 108 pediatric subjects 5 to less than 12 years of age enrolled in Trial T0834, 57 subjects received XOFLUZA and 51 received placebo. In this age group, the proportion of subjects with laboratory-confirmed clinical influenza was 4% in the XOFLUZA group and 14% in the placebo group.

15 REFERENCES

1. "People at High Risk For Flu Complications." Refer to U.S. Centers for Disease Control and Prevention "Influenza (Flu)" website.

16 HOW SUPPLIED/STORAGE AND HANDLING

XOFLUZA is available as tablets (40 mg and 80 mg) and as oral suspension [40 mg/20 mL (2 mg/mL)]. The single oral dose to be administered depends on body weight [see *Dosage and Administration (2)*].

XOFLUZA Tablets

How Supplied

- 40 mg white to light yellow, oblong-shaped, film-coated tablets debossed with "BXM40" on one side available as:
 - 1 \times 40 mg tablet per blister card in secondary packaging; NDC 50242-860-01

- 80 mg white to light yellow, oblong shaped, film-coated tablets debossed with "BXM80" on one side available as:
 - 1 × 80 mg tablet per blister card in secondary packaging: NDC 50242-877-01

Storage

Store XOFLUZA Tablets in their blister package at 20°C to 25°C (68°F to 77°F); excursions permitted to 15°C to 30°C (59°F to 86°F) [see *USP Controlled Room Temperature*].

XOFLUZA for Oral Suspension

How Supplied

XOFLUZA for oral suspension 40 mg/20 mL (2 mg/mL) are white to light yellow granules and is supplied in an amber glass bottle with a child-resistant cap. When constituted with drinking water or sterile water, the usable volume of suspension is 20 mL, equivalent to 40 mg of baloxavir marboxil. XOFLUZA for oral suspension is available as:

- 40 mg/20 mL (2 mg/mL) for oral suspension: NDC 50242-583-01

Handling

The product contains no preservative and **must be administered within 10 hours after constitution.**

Storage

Store granules at room temperature 20°C to 25°C (68°F to 77°F) and keep in the original bottle; excursions are permitted between 15°C and 30°C (59°F and 86°F).

Store constituted suspension no longer than 10 hours at room temperature 20°C to 25°C (68°F to 77°F) when constituted with drinking water or sterile water. The suspension must be discarded if not used within 10 hours of preparation or if suspension has been stored above 25°C (77°F).

17 PATIENT COUNSELING INFORMATION

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

Important Dosing Information

Instruct patients to begin treatment with XOFLUZA as soon as possible at the first appearance of influenza symptoms, within 48 hours of onset of symptoms. Instruct patients to start taking XOFLUZA for prevention as soon as possible after exposure [see *Dosage and Administration (2)*].

XOFLUZA can be taken with or without food, but advise patients not to take with dairy products, calcium-fortified beverages, polyvalent cation-containing laxatives, antacids, or oral supplements (e.g., calcium, iron, magnesium, selenium, or zinc) [see *Dosage and Administration (2) and Drug Interactions (7.1)*].

Advise patients to follow the healthcare provider's dosing recommendation for a single, one-time dose of XOFLUZA. XOFLUZA is dosed based on weight and is available in tablet form or as for oral suspension for oral or enteral use.

Tablets: Provided as a blister card containing either one tablet of 40 mg, or one tablet of

80 mg as a single dose [see Dosage and Administration (2.2)].

For oral suspension: Provided in a bottle containing 40 mg/20 mL (2 mg/mL) after constitution by the healthcare provider [see How Supplied/Storage and Handling (16)]. Advise the patients and/or caregiver to use a measuring device (oral syringe) to measure their prescribed dose. Counsel patients and/or caregivers how to use the measuring device (oral syringe) provided and inform patients that they may need to draw up XOFLUZA for oral suspension multiple times using the oral syringe to receive the full dosage. The suspension should be taken as soon as possible but no later than 10 hours after constitution by the healthcare provider because the product does not contain a preservative [see Dosage and Administration (2.2, 2.3)].

Hypersensitivity

Advise patients and/or caregivers of the risk of severe allergic reactions such as anaphylaxis, angioedema, urticaria, and erythema multiforme. Instruct patients and/or caregivers to seek immediate medical attention if an allergic-like reaction occurs or is suspected [see Contraindications (4) and Warnings and Precautions (5.1)].

Influenza Vaccines

Because of the potential for antivirals to decrease the effectiveness of live attenuated influenza vaccines, advise patients to consult their healthcare provider prior to receiving a live attenuated influenza vaccine after taking XOFLUZA [see Drug Interactions (7.2)].

Distributed by:

Genentech USA, Inc.

A Member of the Roche Group

1 DNA Way

South San Francisco, CA 94080-4990

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PATIENT INFORMATION

XOFLUZA® (zoh-FLEW-zuh)
(baloxavir marboxil)
Tablets

XOFLUZA® (zoh-FLEW-zuh)
(baloxavir marboxil)
for oral suspension

What is XOFLUZA?

XOFLUZA is a prescription medicine used to:

- treat the flu (influenza) in people 5 years of age and older who have flu symptoms for no more than 48 hours and who are:
 - otherwise healthy **or**
 - at high risk of developing problems from the flu.
- prevent the flu in people 5 years of age and older following contact with a person who has the flu (post-exposure prophylaxis).

XOFLUZA does not treat or prevent illness that is caused by infections other than the influenza virus.

XOFLUZA does not prevent bacterial infections that may happen with the flu.

It is not known if XOFLUZA is safe and effective for the treatment and prevention of the flu in children less than 5 years of age. XOFLUZA is not for use in children less than 5 years of age.

Do not take XOFLUZA if you are allergic to baloxavir marboxil or any of the ingredients in XOFLUZA. **See the end of this leaflet for a complete list of ingredients in XOFLUZA.**

Before you take XOFLUZA, tell your healthcare provider about all of your medical conditions, including if you:

- are pregnant or plan to become pregnant. It is not known if XOFLUZA can harm your unborn baby.
- are breastfeeding or plan to breastfeed. It is not known if XOFLUZA passes into your breast milk.

Talk to your healthcare provider before you receive a live flu vaccine after taking XOFLUZA.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements. Know the medicines you take. Keep a list of them to show your healthcare provider and pharmacist when you get a new medicine.

How should I take XOFLUZA?

- Take XOFLUZA exactly as directed by your healthcare provider or pharmacist.
- Your healthcare provider will either prescribe:
 - XOFLUZA tablet as a single, one-time dose, **or**
 - XOFLUZA oral suspension provided with an oral syringe to be given as a single, one-time dose.
- XOFLUZA may be given through a feeding tube. Follow your healthcare provider's instructions for giving XOFLUZA through a feeding tube.
- Take XOFLUZA with or without food.
- Do not take XOFLUZA with dairy products, calcium-fortified beverages, laxatives, antacids or oral supplements containing iron, zinc, selenium, calcium or magnesium.
- If you take too much XOFLUZA, go to the nearest emergency room right away.

If you are taking XOFLUZA for oral suspension:

- The pharmacist will mix XOFLUZA for oral suspension before it is given to you. If XOFLUZA is not given to you as a liquid or an oral syringe was not provided, contact your pharmacist.
- **Take XOFLUZA before the expiration time and date** written by the pharmacist on the bottle label. **Do not** take XOFLUZA if the expiration time and date have passed. Throw away (discard) the bottle and contact your healthcare provider.
- Your healthcare provider will prescribe XOFLUZA based on your or your child's weight. The total prescribed dose of XOFLUZA for oral suspension may require less than one bottle, one bottle, or two bottles of XOFLUZA.
- The total prescribed dose of XOFLUZA for oral suspension may require more than one withdrawal from the bottle with the oral syringe.
- **Contact your healthcare provider or pharmacist if you have any questions on how to take or give the prescribed dose of XOFLUZA for oral suspension.**

Taking or giving a dose of XOFLUZA for oral suspension:

Step 1. Swirl the XOFLUZA for oral suspension bottle well before each use. **Do not shake.**

Step 2. Open the bottle by pushing downward on the child resistant bottle cap and

twisting it in the direction of the arrow.

Step 3. Measure the oral suspension with the oral syringe provided by the pharmacist to be sure you give the prescribed dose. If the prescribed dose requires more than one withdrawal from the bottle, repeat **Steps 3 and 4** for each withdrawal until you take or give the prescribed dose.

Step 4. Take or Give the full contents of the oral syringe.

Step 5. Close the bottle. Throw away any remaining oral suspension and the oral syringe.

What are the possible side effects of XOFLUZA?

XOFLUZA may cause serious side effects, including:

- **Allergic reactions.** Get emergency medical help right away if you develop any of these signs or symptoms of an allergic reaction:
 - trouble breathing
 - swelling of your face, throat or mouth
 - skin rash, hives or blisters
 - dizziness or lightheadedness

The most common side effects of XOFLUZA for treatment of the flu in adults and adolescents (12 years of age and older) include:

- diarrhea
- bronchitis
- nausea
- sinusitis
- headache

The most common side effects of XOFLUZA for treatment of the flu in children (5 years of age to less than 12 years of age) include:

- vomiting
- diarrhea

XOFLUZA is not effective in treating or preventing infections other than influenza. Other kinds of infections can appear like flu or occur along with flu and may need different kinds of treatment.

Tell your healthcare provider if you feel worse or develop new symptoms during or after treatment with XOFLUZA or if your flu symptoms do not start to get better.

These are not all the possible side effects of XOFLUZA.

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 XOFLUZA?

XOFLUZA tablets:

- Store XOFLUZA tablet at room temperature between 68°F to 77°F (20°C to 25°C).
- Store XOFLUZA tablet in the blister package that it comes in.

XOFLUZA for oral suspension:

- Store XOFLUZA for oral suspension at room temperature between 68°F to 77°F (20°C to 25°C).
- Keep XOFLUZA for oral suspension in the original container.
- Use Xofluza for oral suspension by the expiration time and date written on bottle label. Throw away any XOFLUZA for oral suspension not used by the time and date on the bottle label, or if it has been stored at a temperature above 77°F (25°C).

Keep XOFLUZA and all medicines out of the reach of children.

General information about the safe and effective use of XOFLUZA.

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

What are the ingredients in XOFLUZA?

Active ingredient: baloxavir marboxil

XOFLUZA tablets inactive ingredients: croscarmellose sodium, hypromellose, lactose monohydrate, microcrystalline cellulose, povidone, sodium stearyl fumarate, talc, and titanium dioxide.

XOFLUZA for oral suspension inactive ingredients: colloidal silicon dioxide, hypromellose, maltitol, mannitol, povidone K25, sodium chloride, strawberry flavor, sucralose and talc.

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This Patient Information has been approved by the U.S. Food and Drug Administration.

Revised:
03/2024

Representative sample of labeling (see the HOW SUPPLIED section for complete listing):

PRINCIPAL DISPLAY PANEL - 40 mg/20 mL Bottle Carton

NDC 50242-583-01

Xofluza®
(baloxavir marboxil)
for oral suspension

40 mg/20 mL (2 mg/mL)

Each mL contains
2 mg baloxavir marboxil
after constitution.

Take volume prescribed as a
single one-time dose.
Discard unused portion.

Use the appropriate
measuring device for your
total prescribed dose.

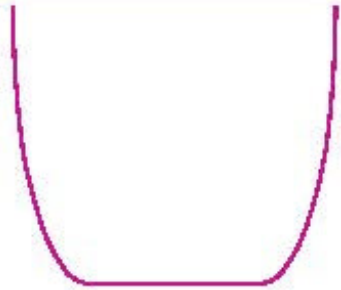
Take before the suspension
expires (see bottle label).

No preservative.

20 mL total usable volume
after constitution

Rx only
Genentech

11000080



NDC 50242-583-01

Xofluza[®]
(baloxavir marboxil)
for oral suspension

40 mg/20 mL (2 mg/mL)

Each mL contains
2 mg baloxavir marboxil
after constitution.

Take volume prescribed as a
single one-time dose.
Discard unused portion.

Use the appropriate
measuring device for your
total prescribed dose.

Take before the suspension
expires (see bottle label).

No preservative.

**20 mL total usable volume
after constitution**

R only



PRINCIPAL DISPLAY PANEL - 1 x 40 mg Tablet Blister Pack Carton

Xofluza®
(baloxavir marboxil) tablet
40 mg per tablet

NDC 50242-860-01

Contains 40 mg total dose (1 x 40 mg tablet)

Usual dosage:
Take the tablet in this package
as a single, one-time dose

LIFT HERE
TO OPEN

Rx only

Genentech

10241169

Xofluza® NDC 50242-860-01
(baloxavir marboxil) tablet
40 mg per tablet

Contains 40 mg total dose (1 x 40 mg tablet)

Usual dosage:
Take the tablet in this package
as a single, one-time dose

LIFT HERE
TO OPEN

Rx only
Genentech

10241169

PRINCIPAL DISPLAY PANEL - 1 x 80 mg Tablet Blister Pack Carton

Xofluza®
(baloxavir marboxil) tablet
80 mg per tablet

NDC 50242-877-01

Contains 80 mg total dose (1 x 80 mg tablet)

Usual dosage:
Take the tablet in this package

as a single, one-time dose

LIFT HERE
TO OPEN

Rx only

Genentech

10241170

Xofluza[®]
(baloxavir marboxil) tablet
80 mg per tablet

NDC 50242-877-01

Contains 80 mg total dose (1 x 80 mg tablet)

Usual dosage:
Take the tablet in this package
as a single, one-time dose

LIFT HERE
TO OPEN

Rx only
Genentech

10241170

XOFLUZA

baloxavir marboxil tablet, film coated

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:50242-860
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
BALOXAVIR MARBOXIL (UNII: 505CXM6OHG) (BALOXAVIR - UNII:4G86Y4JT3F)	BALOXAVIR MARBOXIL	40 mg

Inactive Ingredients

Ingredient Name	Strength
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)	
CROSCARMELOSE SODIUM (UNII: M28OL1HH48)	
POVIDONE K25 (UNII: K0KQV10C35)	
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
SODIUM STEARYL FUMARATE (UNII: 7CV7WJK4UI)	
HYPROMELLOSE, UNSPECIFIED (UNII: 3NXW29V3WO)	
TALC (UNII: 7SEV7J4R1U)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	

Product Characteristics

Color	YELLOW (white to light yellow)	Score	no score
Shape	OVAL	Size	11mm
Flavor		Imprint Code	BXM40
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:50242-860-01	1 in 1 CARTON	03/26/2021	
1		1 in 1 BLISTER PACK; Type 0: Not a Combination Product		
2	NDC:50242-860-86	1 in 1 CARTON	08/31/2021	
2		1 in 1 BLISTER PACK; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA210854	10/24/2018	

XOFLUZA

baloxavir marboxil granule, for solution

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:50242-583
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
BALOXAVIR MARBOXIL (UNII: 505CXM6OHG) (BALOXAVIR - UNII:4G86Y4JT3F)	BALOXAVIR MARBOXIL	40 mg in 20 mL

Inactive Ingredients

Ingredient Name	Strength
MANNITOL (UNII: 3OWL53L36A)	
MALTITOL (UNII: D65DG142WK)	
SODIUM CHLORIDE (UNII: 451W47IQ8X)	
HYPROMELLOSE, UNSPECIFIED (UNII: 3NXW29V3WO)	
POVIDONE K25 (UNII: K0KQV10C35)	
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	

SUCRALOSE (UNII: 96K6UQ3ZD4)				
TALC (UNII: 7SEV7J4R1U)				
WATER (UNII: 059QF0KO0R)				
Product Characteristics				
Color		Score		
Shape		Size		
Flavor	STRAWBERRY	Imprint Code		
Contains				
Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:50242-583-01	1 in 1 CARTON	11/23/2020	
1		20 mL in 1 BOTTLE, GLASS; Type 0: Not a Combination Product		
Marketing Information				
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date	
NDA	NDA214410	10/24/2018		

XOFLUZA

baloxavir marboxil tablet, film coated

Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:50242-877
Route of Administration	ORAL		
Active Ingredient/Active Moiety			
	Ingredient Name	Basis of Strength	Strength
	BALOXAVIR MARBOXIL (UNII: 505CXM6OHG) (BALOXAVIR - UNII:4G86Y4JT3F)	BALOXAVIR MARBOXIL	80 mg
Inactive Ingredients			
	Ingredient Name	Strength	
	LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)		
	CROSCARMELOSE SODIUM (UNII: M28OL1HH48)		
	POVIDONE K25 (UNII: K0KQV10C35)		
	MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)		
	SODIUM STEARYL FUMARATE (UNII: 7CV7WJK4UI)		

WATER (UNII: 059QF0KO0R)

Product Characteristics

Color	WHITE (white to light yellow)	Score	no score
Shape	OVAL	Size	16mm
Flavor		Imprint Code	BXM80
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:50242-877-01	1 in 1 CARTON	03/26/2021	
1		1 in 1 BLISTER PACK; Type 0: Not a Combination Product		
2	NDC:50242-877-86	1 in 1 CARTON	08/31/2021	
2		1 in 1 BLISTER PACK; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA210854	10/24/2018	

Labeler - Genentech, Inc. (080129000)

Registrant - Genentech, Inc. (080129000)

Establishment

Name	Address	ID/FEI	Business Operations
F. Hoffmann-La Roche Ltd		485244961	MANUFACTURE(50242-583, 50242-860, 50242-877) , ANALYSIS(50242-583, 50242-860, 50242-877) , LABEL(50242-583) , PACK(50242-583)

Establishment

Name	Address	ID/FEI	Business Operations
F. Hoffmann-La Roche AG		482242971	ANALYSIS(50242-583, 50242-860, 50242-877) , MANUFACTURE(50242-583)

Revised: 3/2024

Genentech, Inc.