

HIGHLIGHTS OF PRESCRIBING INFORMATION

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

RIZATRIPTAN BENZOATE tablets, for oral use

Initial U.S. Approval: 1998

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

Indications and Usage	
Acute Treatment of Migraine (1)	12/2011
Dosage and Administration	
Pediatric Patients	
(Age 6 to 17 Years) (2.2)	12/2011

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

Rizatriptan benzoate is a serotonin (5-HT)_{1B/1D} receptor agonist (triptan) indicated for the acute treatment of migraine with or without aura in adults and in pediatric patients 6 to 17 years of age (1).

Limitations of Use:

- Use only after clear diagnosis of migraine has been established (1)
- Not indicated for the prophylactic therapy of migraine (1)
- Not indicated for the treatment of cluster headache (1)

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

- Adults: 5 or 10 mg single dose; separate repeat doses by at least two hours; maximum dose in a 24 hour period: 30 mg (2.1)
- Pediatric patients 6 to 17 years: 5 mg single dose in patients <40 kg (88 lb); 10 mg single dose in patients ≥40 kg (88 lb) (2.2)
- Adjust dose if co-administered with propranolol (2.4)

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

- Rizatriptan benzoate tablets: 5 and 10 mg (3)

----- **CONTRAINDICATIONS** -----

- History of ischemic heart disease or coronary artery vasospasm (4)
- History of stroke or transient ischemic attack (4)

- Peripheral vascular disease (4)
- Ischemic bowel disease (4)
- Uncontrolled hypertension (4)
- Recent (within 24 hours) use of another 5-HT₁ agonist (e.g., another triptan), or of an ergotamine-containing medication (4)
- Hemiplegic or basilar migraine (4)
- MAO-A inhibitor used in the past 2 weeks (4)
- Hypersensitivity to rizatriptan benzoate (4)

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

- Myocardial Ischemia, Myocardial Infarction, and Prinzmetal's Angina: Perform cardiac evaluation in patients with multiple cardiovascular risk factors (5.1)
- Arrhythmias: Discontinue dosing if occurs (5.2)
- Chest/throat/neck/jaw pain, tightness, pressure, or heaviness; Generally not associated with myocardial ischemia; Evaluate patients at high risk (5.3)
- Cerebral hemorrhage, subarachnoid hemorrhage, and stroke: Discontinue dosing if occurs (5.4)
- Gastrointestinal ischemic events, peripheral vasospastic reactions: Discontinue dosing if occurs (5.5)
- Medication Overuse Headache: Detoxification may be necessary (5.6)
- Serotonin Syndrome: Discontinue dosing if occurs (5.7)

----- **ADVERSE REACTIONS** -----

The most common adverse reactions in adults were (incidence ≥5% and greater than placebo): asthenia/fatigue, somnolence, pain/pressure sensation and dizziness (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Cipla Ltd at 1-866-604-3268 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

----- **USE IN SPECIFIC POPULATIONS** -----

- Pregnancy: Based on animal data, may cause fetal harm (8.1)

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

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FULL PRESCRIBING INFORMATION**1. INDICATIONS AND USAGE**

Rizatriptan benzoate tablets are indicated for the acute treatment of migraine with or without aura in adults and in pediatric patients 6 to 17 years old.

Limitations of Use

- Rizatriptan benzoate tablets should only be used where a clear diagnosis of migraine has been established. If a patient has no response for the first migraine attack treated with rizatriptan benzoate, the diagnosis of migraine should be reconsidered before rizatriptan benzoate is administered to treat any subsequent attacks.
- Rizatriptan benzoate tablets is not indicated for use in the management of hemiplegic or basilar migraine [see *Contraindications* (4)].
- Rizatriptan benzoate tablets is not indicated for the prevention of migraine attacks.
- Safety and effectiveness of rizatriptan benzoate tablets have not been established for cluster headache.

2. DOSAGE AND ADMINISTRATION**2.1 Dosing Information in Adults**

The recommended starting dose of rizatriptan benzoate tablets is either 5 mg or 10 mg for the acute treatment of migraines in adults. The 10 mg dose may provide a greater effect than the 5 mg dose, but may have a greater risk of adverse reactions [see *Clinical Studies* (14.1)].

Redosing in Adults

Although the effectiveness of a second dose or subsequent doses has not been established in

placebo-controlled trials, if the migraine headache returns, a second dose may be administered 2 hours after the first dose. The maximum daily dose should not exceed 30 mg in any 24 hour period. The safety of treating, on average, more than four headaches in a 30-day period has not been established.

2.2 Dosing Information in Pediatric Patients (Age 6 to 17 Years)

Dosing in pediatric patients is based on the patient's body weight. The recommended dose of rizatriptan benzoate tablet is 5 mg in patients weighing less than 40 kg (88 lb), and 10 mg in patients weighing 40 kg (88 lb) or more.

The efficacy and safety of treatment with more than one dose of rizatriptan benzoate tablets within 24 hours in pediatric patients 6 to 17 years of age have not been established.

2.4 Dosage Adjustment for Patients on Propranolol**Adult Patients**

In adult patients taking propranolol, only the 5 mg dose of rizatriptan benzoate tablets is recommended, up to a maximum of 3 doses in any 24 hour period (15 mg) [see *Drug Interactions* (7.1) and *Clinical Pharmacology* (12.3)].

Pediatric Patients

For pediatric patients weighing ≥40 kg (88 lb) taking propranolol, only a single 5-mg dose of rizatriptan benzoate tablets is recommended (maximum dose of 5 mg in a 24-hour period). Rizatriptan benzoate tablets should not be prescribed to propranolol-treated pediatric patients who weigh less than 40 kg (88 lb) [see *Drug Interactions* (7.1) and *Clinical Pharmacology* (12.3)].

3. DOSAGE FORMS AND STRENGTHS**Rizatriptan benzoate tablets**

- 5 mg tablets are light pink, oval-shaped, biconvex uncoated tablet with 'C181' debossed on one side and Plain on other side.
- 10 mg tablets are light pink, oval-shaped, biconvex uncoated tablet with 'C182' debossed on one side and Plain on other side.

4. CONTRAINDICATIONS

Rizatriptan benzoate tablets is contraindicated in patients with:

- Ischemic coronary artery disease (angina pectoris, history of myocardial infarction, or documented silent ischemia), or other significant underlying cardiovascular disease [see *Warnings and Precautions* (5.1)].
- Coronary artery vasospasm including Prinzmetal's angina [see *Warnings and Precautions* (5.1)].
- History of stroke or transient ischemic attack (TIA) [see *Warnings and Precautions* (5.4)].
- Peripheral vascular disease (PVD) [see *Warnings and Precautions* (5.5)].
- Ischemic bowel disease [see *Warnings and Precautions* (5.5)].
- Uncontrolled hypertension [see *Warnings and Precautions* (5.8)].
- Recent use (i.e., within 24 hours) of another 5-HT₁ agonist, ergotamine-containing medication, or ergot-type medication (such as dihydroergotamine or methysergide) [see *Drug Interactions* (7.2 and 7.3)].
- Hemiplegic or basilar migraine.
- Concurrent administration or recent discontinuation (i.e., within 2 weeks) of a MAO-A inhibitor [see *Drug Interactions* (7.5) and *Clinical Pharmacology* (12.3)].
- Hypersensitivity to rizatriptan benzoate (angioedema and anaphylaxis seen) [see *Adverse Reactions* (6.2)].

5. WARNINGS AND PRECAUTIONS**5.1 Myocardial Ischemia, Myocardial Infarction, and Prinzmetal's Angina**

Rizatriptan benzoate tablets should not be given to patients with ischemic or vasospastic coronary artery disease. There have been rare reports of serious cardiac adverse reactions, including acute myocardial infarction, occurring within a few hours following administration of rizatriptan benzoate tablets. Some of these reactions occurred in patients without known coronary artery disease (CAD). 5-HT₁ agonists including rizatriptan benzoate tablets may cause coronary artery vasospasm (Prinzmetal's Angina), even in patients without a history of CAD.

Triptan-naïve patients who have multiple cardiovascular risk factors (e.g., increased age, diabetes, hypertension, smoking, obesity, strong family history of CAD) should have a cardiovascular evaluation prior to receiving rizatriptan benzoate tablets. If there is evidence of CAD or coronary artery vasospasm, rizatriptan benzoate tablets should not be administered [see *Contraindications* (4)]. For patients who have a negative cardiovascular evaluation, consideration should be given to administration of the first rizatriptan benzoate tablets dose in a medically-supervised setting and performing an electrocardiogram (ECG) immediately following rizatriptan benzoate administration. Periodic cardiovascular evaluation should be considered in intermittent long-term users of rizatriptan benzoate tablets who have cardiovascular risk factors.

5.2 Arrhythmias

Life-threatening disturbances of cardiac rhythm, including ventricular tachycardia and ventricular fibrillation leading to death, have been reported within a few hours following the administration of 5-HT₁ agonists. Discontinue rizatriptan benzoate tablets if these disturbances occur.

5.3 Chest, Throat, Neck and/or Jaw Pain/Tightness/Pressure

As with other 5-HT₁ agonists, sensations of tightness, pain, pressure, and heaviness in the precordium, throat, neck and jaw commonly occur after treatment with rizatriptan benzoate tablets and are usually non-cardiac in origin. However, if a cardiac origin is suspected, patients should be evaluated. Patients shown to have CAD and those with Prinzmetal's variant angina should not receive 5-HT₁ agonists.

5.4 Cerebrovascular Events

Cerebral hemorrhage, subarachnoid hemorrhage, and stroke have occurred in patients treated with 5-HT₁ agonists, and some have resulted in fatalities. In a number of cases, it appears possible that the cerebrovascular events were primary, the 5-HT₁ agonist having been administered in the incorrect belief that the symptoms experienced were a consequence of migraine, when they were not. Also, patients with migraine may be at increased risk of certain cerebrovascular events (e.g., stroke, hemorrhage, transient ischemic attack). Discontinue rizatriptan benzoate tablets if a cerebrovascular event occurs.

As with other acute migraine therapies, before treating headaches in patients not previously diagnosed as migraineurs, and in migraineurs who present with atypical symptoms, care should be taken to exclude other potentially serious neurological conditions. Rizatriptan benzoate tablets should not be administered to patients with a history of stroke or transient ischemic attack [see *Contraindications* (4)].

5.5 Other Vasospasm Reactions

5-HT₁ agonists, including rizatriptan benzoate tablets, may cause non-coronary vasospastic reactions, such as peripheral vascular ischemia, gastrointestinal vascular ischemia and infarction (presenting with abdominal pain and bloody diarrhea), splenic infarction, and Raynaud's syndrome. In patients who experience symptoms or signs suggestive of non-coronary vasospasm reaction following the use of any 5-HT₁ agonist, the suspected vasospasm reaction should be ruled out before receiving additional rizatriptan benzoate tablets doses.

Reports of transient and permanent blindness and significant partial vision loss have been reported with the use of 5-HT₁ agonists. Since visual disorders may be part of a migraine attack, a causal relationship between these events and the use of 5-HT₁ agonists have not

been clearly established.

5.6 Medication Overuse Headache

Overuse of acute migraine drugs (e.g., ergotamine, triptans, opioids, or a combination of drugs for 10 or more days per month) may lead to exacerbation of headache (medication overuse headache). Medication overuse headache may present as migraine-like daily headaches, or as a marked increase in frequency of migraine attacks. Detoxification of patients, including withdrawal of the overused drugs, and treatment of withdrawal symptoms (which often includes a transient worsening of headache) may be necessary.

5.7 Serotonin Syndrome

Serotonin syndrome may occur with triptans, including rizatriptan benzoate tablets particularly during co-administration with selective serotonin reuptake inhibitors (SSRIs), serotonin norepinephrine reuptake inhibitors (SNRIs), tricyclic antidepressants (TCAs), and MAO inhibitors [see *Drug Interactions* (7.5)]. Serotonin syndrome symptoms may include mental status changes (e.g., agitation, hallucinations, coma), autonomic instability (e.g., tachycardia, labile blood pressure, hyperthermia), neuromuscular aberrations (e.g., hyperreflexia, incoordination) and/or gastrointestinal symptoms (e.g., nausea, vomiting, diarrhea). The onset of symptoms can occur within minutes to hours of receiving a new or a greater dose of a serotonergic medication. Rizatriptan benzoate tablets treatment should be discontinued if serotonin syndrome is suspected [see *Drug Interactions* (7.4) and *Patient Counseling Information* (17)].

5.8 Increase in Blood Pressure

Significant elevation in blood pressure, including hypertensive crisis with acute impairment of organ systems, has been reported on rare occasions in patients with and without a history of hypertension receiving 5-HT₁ agonists, including rizatriptan benzoate tablets. In healthy young adult male and female patients who received maximal doses of rizatriptan benzoate tablets (10 mg every 2 hours for 3 doses), slight increases in blood pressure (approximately 2 - 3 mmHg) were observed. Rizatriptan benzoate tablets is contraindicated in patients with uncontrolled hypertension [see *Contraindications* (4)].

6. ADVERSE REACTIONS

The following adverse reactions are discussed in more detail in other sections of the labeling:

- Myocardial Ischemia, Myocardial Infarction, and Prinzmetal's Angina [see *Warnings and Precautions* (5.1)].
- Arrhythmias [see *Warnings and Precautions* (5.2)].
- Chest and/or Throat, Neck and/or Jaw Pain/Tightness/Pressure [see *Warnings and Precautions* (5.3)].
- Cerebrovascular Events [see *Warnings and Precautions* (5.4)].
- Other Vasospasm Reactions [see *Warnings and Precautions* (5.5)].
- Medication Overuse Headache [see *Warnings and Precautions* (5.6)].
- Serotonin Syndrome [see *Warnings and Precautions* (5.7)].
- Increase in Blood Pressure [see *Warnings and Precautions* (5.8)].

6.1 Clinical Trials Experience

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

Adults**Incidence in Controlled Clinical Trials**

Adverse reactions to rizatriptan benzoate tablets were assessed in controlled clinical trials that included over 3700 adult patients who received single or multiple doses of rizatriptan benzoate tablets. The most common adverse reactions during treatment with rizatriptan benzoate tablets (≥5% in either treatment group and greater than placebo) were asthenia/fatigue, somnolence, pain/pressure sensation and dizziness. These adverse reactions appeared to be dose related.

Table 1 lists the adverse reactions (incidence ≥2% and greater than placebo) after a single dose of rizatriptan benzoate tablets in adults.

Adverse Reactions	% of Patients		
	Rizatriptan benzoate tablets 5 mg (N=977)	Rizatriptan benzoate tablets 10 mg (N=1167)	Placebo (N=627)
<i>Atypical Sensations</i>	4	5	4
<i>Paresthesia</i>	3	4	-2
<i>Pain and other Pressure Sensations</i>	6	9	3
<i>Chest Pain:</i>			
tightness/pressure and/or heaviness	<2	3	1
<i>Neck/throat/jaw:</i>			
pain/tightness/pressure	<2	2	1
<i>Regional Pain:</i>			
tightness/pressure and/or heaviness	<1	2	0
Pain, location unspecified	3	3	-2
<i>Digestive</i>	9	13	8
Dry Mouth	3	3	1
Nausea	4	6	4
<i>Neurological</i>	14	20	11
Dizziness	4	9	5
Headache	<2	2	<1
Somnolence	4	8	4
<i>Other</i>			
Asthenia/fatigue	4	7	2

The frequencies of adverse reactions in clinical trials did not increase when up to three doses were taken within 24 hours. Adverse reaction frequencies were also unchanged by concomitant use of drugs commonly taken for migraine prophylaxis (including propranolol), oral contraceptives, or analgesics. The incidences of adverse reactions were not affected by age or gender. There were insufficient data to assess the impact of race on the incidence of adverse reactions.

Other Events Observed in Association with the Administration of Rizatriptan Benzoate Tablets in Adults

In the following section, the frequencies of less commonly reported adverse events are presented that were not reported in other sections of the labeling. Because the reports include events observed in open studies, the role of rizatriptan benzoate tablets in their causation cannot be reliably determined. Furthermore, variability associated with adverse event reporting, the terminology used to describe adverse events, limit the value of the quantitative frequency estimates provided. Event frequencies are calculated as the number of patients who used rizatriptan benzoate tablets and reported an event divided by the total number of patients exposed to rizatriptan benzoate (N=3716). All reported events occurred at an incidence ≥1%, or are believed to be reasonably associated with the use of the drug. Events are further classified

within body system categories and enumerated in order of decreasing frequency using the following definitions: frequent adverse events are those defined as those occurring in at least (>)1/100 patients; infrequent adverse experiences are those occurring in 1/100 to 1/1000 patients; and rare adverse experiences are those occurring in fewer than 1/1000 patients.

General: Infrequent was facial edema. Rare were syncope and edema/swelling.

Atypical Sensations: Frequent were warm sensations.

Cardiovascular: Frequent was palpitation. Infrequent were tachycardia, cold extremities, and bradycardia.

Digestive: Frequent were diarrhea and vomiting. Infrequent were dyspepsia, tongue edema and abdominal distention.

Musculoskeletal: Infrequent were muscle weakness, stiffness, myalgia and muscle cramp/spasm.

Neurological/Psychiatric: Frequent were hypoesthesia, euphoria and tremor. Infrequent were vertigo, insomnia, confusion/disorientation, gait abnormality, memory impairment, and agitation.

Respiratory: Frequent was dyspnea. Infrequent was pharyngeal edema.

Special Senses: Infrequent were blurred vision and tinnitus. Rare was eye swelling.

Skin and Skin Appendage: Frequent was flushing. Infrequent were sweating, pruritus, rash, and urticaria. Rare was erythema, hot flashes.

The adverse reaction profile seen with rizatriptan benzoate orally disintegrating tablets was similar to that seen with rizatriptan benzoate tablets.

Pediatric Patients 6 to 17 Years of Age**Incidence in Controlled Clinical Trials in Pediatric Patients**

Adverse reactions to rizatriptan benzoate orally disintegrating tablets were assessed in a controlled clinical trial in the acute treatment of migraines (Study 7) that included a total of 1382 pediatric patients 6-17 years of age, of which 977 (72%) administered at least one dose of study treatment (rizatriptan benzoate orally disintegrating tablets and/or placebo) [see *Clinical Studies* (14.2)]. The incidence of adverse reactions reported for pediatric patients in the acute clinical trial was similar in patients who received rizatriptan benzoate tablets to those who received placebo. The adverse reaction pattern in pediatric patients is expected to be similar to that in adults.

Other Events Observed in Association with the Administration of Rizatriptan benzoate Orally Disintegrating Tablets in Pediatric Patients

In the following section, the frequencies of less commonly reported adverse events are presented. Because the reports include events observed in open studies, the role of rizatriptan benzoate orally disintegrating tablets in their causation cannot be reliably determined. Furthermore, variability associated with adverse event reporting, the terminology used to describe adverse events, limit the value of the quantitative frequency estimates provided.

Event frequencies are calculated as the number of pediatric patients 6 to 17 years of age who used rizatriptan benzoate orally disintegrating tablets and reported an event divided by the total number of patients exposed to rizatriptan benzoate orally disintegrating tablets (N=1068). All reported events occurred at an incidence ≥1%, or are believed to be reasonably associated with the use of the drug. Events are further classified within system organ class and enumerated in order of decreasing frequency using the following definitions: frequent adverse events are those occurring in (>)1/100 pediatric patients; infrequent adverse experiences are those occurring in 1/100 to 1/1000 pediatric patients; and rare adverse experiences are those occurring in fewer than 1/1000 patients.

General: Frequent was fatigue.

Ear and labyrinth disorders: Infrequent was hypoacusis.

Gastrointestinal disorders: Frequent was abdominal discomfort.

Nervous system disorders: Infrequent were coordination abnormal, disturbance in attention, and presyncope.

Psychiatric disorders: Infrequent was hallucination.

6.2 Postmarketing Experience

The following section enumerates potentially important adverse events that have occurred in clinical practice and which have been reported spontaneously to various surveillance systems. The events enumerated include all except those already listed in other sections of the labeling or those too general to be informative. Because the reports cite events reported spontaneously from worldwide postmarketing experience, frequency of events and the role of rizatriptan benzoate tablets in their causation cannot be reliably determined.

Neurological/Psychiatric: Seizure.

General: Allergic conditions including anaphylaxis/anaphylactoid reaction, angioedema, wheezing, and toxic epidermal necrolysis [see *Contraindications* (4)].

Special Senses: Dysgeusia.

7. DRUG INTERACTIONS**7.1 Propranolol**

The dose of rizatriptan benzoate tablets should be adjusted in propranolol-treated patients, as propranolol has been shown to increase the plasma AUC of rizatriptan by 70% [see *Dosage and Administration* (2.4) and *Clinical Pharmacology* (12.3)].

7.2 Ergot-Containing Drugs

Ergot-containing drugs have been reported to cause prolonged vasospastic reactions. Because these effects may be additive, use of ergotamine-containing or ergot-type medications (like dihydroergotamine or methysergide) and rizatriptan benzoate tablets within 24 hours is contraindicated [see *Contraindications* (4)].

7.3 Other 5-HT₁ Agonists

Because their vasospastic effects may be additive, co-administration of rizatriptan benzoate tablets and other 5-HT₁ agonists within 24 hours of each other is contraindicated [see *Contraindications* (4)].

7.4 SSRIs/SNRIs and Serotonin Syndrome

Cases of serotonin syndrome have been reported during co-administration of triptans and selective serotonin reuptake inhibitors (SSRIs) or serotonin norepinephrine reuptake inhibitors (SNRIs) [see *Warnings and Precautions* (5.7)].

7.5 Monoamine Oxidase Inhibitors

Rizatriptan benzoate tablets is contraindicated in patients taking MAO-A inhibitors and non-selective MAO inhibitors. A specific MAO-A inhibitor increased the systemic exposure of rizatriptan and its metabol

these symptoms, do not drive a car, use machinery, or do anything that needs you to be alert.

What are the possible side effects of rizatriptan benzoate tablets?

Rizatriptan benzoate tablets may cause serious side effects. Call your doctor or go to the nearest hospital emergency room right away if you think you are having any of the serious side effects of rizatriptan benzoate tablets including:

- heart attack.** Symptoms of a heart attack may include:
 - chest discomfort in the center of your chest that lasts for more than a few minutes or that goes away and comes back
 - chest discomfort that feels like uncomfortable pressure, squeezing, fullness or pain
 - pain or discomfort in your arms, back, neck, jaw or stomach
 - shortness of breath with or without chest discomfort
 - breaking out in a cold sweat
 - nausea or vomiting
 - feeling lightheaded

• **stroke.** Symptoms of a stroke may include the following sudden symptoms:

- numbness or weakness in your face, arm or leg, especially on one side of your body
- confusion, problems speaking or understanding
- problems seeing in 1 or both of your eyes
- problems walking, dizziness, loss of balance or coordination
- severe headache with no known cause

• **blood vessel problems.** Symptoms of blood vessel problems may include:

- stomach pain
- bloody diarrhea
- vision problems
- coldness and numbness of hands and feet

• **serotonin syndrome.** A condition called serotonin syndrome can happen when Triptan medicines such as rizatriptan benzoate tablets are taken with certain other medicines. Symptoms of serotonin syndrome may include:

- agitation
- hallucinations
- coma
- fast heartbeat
- fast changes in your blood pressure
- increased body temperature
- muscle spasm
- loss of coordination
- nausea, vomiting or diarrhea

• **increased blood pressure**

The most common side effects of rizatriptan benzoate tablets in adults include:

- feeling sleepy or tired
- pain or pressure in your chest or throat
- dizziness

Tell your doctor if you have any side effect that bothers you or that does not go away.

If you take rizatriptan benzoate tablets too often,

this may result in you getting chronic headaches. In such cases, you should contact your doctor, as you may have to stop taking rizatriptan benzoate tablets.

These are not all the possible side effects of rizatriptan benzoate tablets. 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 rizatriptan benzoate tablets?

- Store rizatriptan benzoate tablets at 20°C to 25°C (68°F to 77°F) [See USP Controlled Room Temperature]
- Safely throw away medicine that is out of date or no longer needed.

Keep rizatriptan benzoate tablets and all medicines out of the reach of children.

General Information about the safe and effective use of rizatriptan benzoate tablets

Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. Do not use rizatriptan benzoate tablets for a condition for which it was not prescribed. Do not give rizatriptan benzoate tablets to other people, even if they have the same symptoms that you have. It may harm them.

This Patient Information leaflet summarizes the most important information about rizatriptan benzoate tablets. If you would like more information, talk to your doctor. You can ask your pharmacist or doctor for information about rizatriptan benzoate tablets that is written for health professionals.

What are the ingredients in rizatriptan benzoate tablets?

Active ingredient in rizatriptan benzoate tablets: Rizatriptan benzoate USP

Inactive ingredients in rizatriptan benzoate tablets: colloidal silicon dioxide, corn starch, lactose monohydrate, magnesium stearate, microcrystalline cellulose and red ferric oxide.

Manufactured by: Cipla Ltd., Verna Goa, India.

Manufactured for: Cipla USA, Inc. 9100 S. Dadeland Blvd., Suite 1500 Miami, FL 33156

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and lactation with doses of 10 and 100 mg/kg/day. In a pre- and postnatal developmental toxicity study in rats, an increase in mortality of the offspring at birth and for the first three days after birth, a decrease in pre- and post-weaning weight gain, and decreased performance in a passive avoidance test (which indicates a decrease in learning capacity of the offspring) were observed at doses of 100 and 250 mg/kg/day. The no-effect dose for all of these effects was 5 mg/kg/day, associated with a maternal plasma exposure (AUC) approximately 7.5 times that in humans receiving the MRDD. With doses of 100 and 250 mg/kg/day, the decreases in average weight of both the male and female offspring persisted into adulthood. All effects on the offspring in both studies occurred in the absence of any apparent maternal toxicity.

In embryofetal development studies, no teratogenic effects were observed when pregnant rats and rabbits were administered doses of 100 and 50 mg/kg/day, respectively, during organogenesis. Fetal weights were decreased in conjunction with decreased maternal weight gain at the highest doses tested. The developmental no-effect dose in these studies was 10 mg/kg/day in both rats and rabbits (maternal exposures approximately 15 times human exposure at the MRDD). Toxicokinetic studies demonstrated placental transfer of drug in both species.

8.3 Nursing Mothers

It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when rizatriptan benzoate tablets is administered to a nursing woman. Rizatriptan is extensively excreted in rat milk, with levels in milk at least 5-fold higher than levels in maternal plasma.

8.4 Pediatric Use

Safety and effectiveness in pediatric patients under 6 years of age have not been established.

The efficacy and safety of rizatriptan benzoate tablets in the acute treatment of migraine in patients aged 6 to 17 years was established in an adequate and well-controlled study [see *Clinical Studies (14.2)*].

The incidence of adverse reactions reported for pediatric patients in the acute clinical trial was similar in patients who received rizatriptan benzoate tablets to those who received placebo. The adverse reaction pattern in pediatric patients is expected to be similar to that in adults.

8.5 Geriatric Use

Clinical studies of rizatriptan benzoate tablets did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. Other reported clinical experience has not identified differences in responses between the elderly and younger patients.

Although the pharmacokinetics of rizatriptan were similar in elderly (aged ≥65 years) and in younger adults (n=17), in general, dose selection for an elderly patient should be cautious, starting at the low end of the dosing range. This reflects the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy.

Geriatric patients who have other cardiovascular risk factors (e.g., diabetes, hypertension, smoking, obesity, strong family history of coronary artery disease) should have a cardiovascular evaluation prior to receiving rizatriptan benzoate tablets [see *Warnings and Precautions (5.1)*].

10. OVERDOSAGE

No overdoses of rizatriptan benzoate tablets were reported during clinical trials in adults.

Some adult patients who received 40 mg of rizatriptan benzoate tablets either a single dose or as two doses with a 2-hour interdose interval had dizziness and somnolence.

In a clinical pharmacology study in which 12 adult subjects received rizatriptan benzoate tablets, at total cumulative doses of 80 mg (given within four hours), two of the subjects experienced syncope, dizziness, bradycardia including third degree AV block, vomiting, and/or incontinence.

In the long-term, open label study, involving 606 treated pediatric migraineurs 12 to 17 years of age (of which 432 were treated for at least 12 months), 151 patients (25%) took two 10-mg doses of rizatriptan benzoate orally disintegrating tablets within a 24-hour period. Adverse reactions for 3 of these patients included abdominal discomfort, fatigue, and dyspnea.

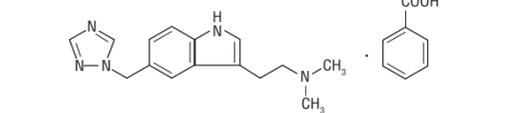
In addition, based on the pharmacology of rizatriptan benzoate tablets, hypertension or myocardial ischemia could occur after overdosage. Gastrointestinal decontamination, (i.e., gastric lavage followed by activated charcoal) should be considered in patients suspected of an overdose with rizatriptan benzoate tablets. Clinical and electrocardiographic monitoring should be continued for at least 12 hours, even if clinical symptoms are not observed.

The effects of hemo- or peritoneal dialysis on serum concentrations of rizatriptan are unknown.

11. DESCRIPTION

Rizatriptan benzoate tablets contains rizatriptan benzoate USP, a selective 5-hydroxytryptamine_{1B/1D} (5-HT_{1B/1D}) receptor agonist.

Rizatriptan benzoate is described chemically as: *N,N*-dimethyl-5-(1*H*-1,2,4-triazol-1-ylmethyl)-1*H*-indole-3-ethanamine monobenzoate and its structural formula is:



Its empirical formula is C₂₁H₂₁N₅•C₇H₅O₂, representing a molecular weight of the free base of 269.4. Rizatriptan benzoate is a white to off-white, crystalline solid that is soluble in water at about 42 mg per mL (expressed as free base) at 25°C.

Rizatriptan benzoate tablets are available for oral administration in strengths of 5 and 10 mg (corresponding to 7.265 mg or 14.53 mg of the benzoate salt, respectively). Each compressed tablet contains the following inactive ingredients: colloidal silicon dioxide, corn starch, lactose monohydrate, magnesium stearate, microcrystalline cellulose and red ferric oxide.

12. CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Rizatriptan binds with high affinity to human cloned 5-HT_{1B/1D} receptors. Rizatriptan benzoate tablets presumably exerts its therapeutic effects in the treatment of migraine headache by binding to 5-HT_{1B/1D} receptors located on intracranial blood vessels and sensory nerves of the trigeminal system.

12.3 Pharmacokinetics

Absorption

Rizatriptan is completely absorbed following oral administration. The mean oral absolute bioavailability of the rizatriptan benzoate tablet is about 45%, and mean peak plasma concentrations (C_{max}) are reached in approximately 1 - 1.5 hours (T_{max}). The presence of a migraine headache did not appear to affect the absorption or pharmacokinetics of rizatriptan. Food has no significant effect on the bioavailability of rizatriptan but delays the time to reach peak concentration by an hour. In clinical trials, rizatriptan benzoate tablets were administered without regard to food.

The bioavailability and C_{max} of rizatriptan were similar following administration of rizatriptan benzoate tablets and rizatriptan benzoate orally disintegrating tablets, but the rate of absorption is somewhat slower with rizatriptan benzoate orally disintegrating tablets, with T_{max} delayed by up to 0.7 hour. AUC of rizatriptan is approximately 30% higher in females than in males. No accumulation occurred on multiple dosing.

Distribution

The mean volume of distribution is approximately 140 liters in male subjects and 110 liters in female subjects. Rizatriptan is minimally bound (14%) to plasma proteins.

Metabolism

The primary route of rizatriptan metabolism is via oxidative deamination by monoamine oxidase-A (MAO-A) to the indole acetic acid metabolite, which is not active at the 5-HT_{1B/1D} receptor. N-monodesmethyl-rizatriptan, a metabolite with activity similar to that of parent compound at the 5-HT_{1B/1D} receptor, is formed to a minor degree. Plasma concentrations of N-monodesmethyl-rizatriptan are approximately 14% of those of parent compound, and it is eliminated at a similar rate. Other minor metabolites, the N-oxide, the 6-hydroxy compound, and the sulfate conjugate of the 6-hydroxy metabolite are not active at the 5-HT_{1B/1D} receptor.

Elimination

The total radioactivity of the administered dose recovered over 120 hours in urine and feces was 82% and 12%, respectively, following a single 10 mg oral administration of ¹⁴C-rizatriptan. Following oral administration of ¹⁴C-rizatriptan, rizatriptan accounted for about 17% of circulating plasma radioactivity. Approximately 14% of an oral dose is excreted in urine as unchanged rizatriptan while 51% is excreted as indole acetic acid metabolite, indicating substantial first pass metabolism.

The plasma half-life of rizatriptan in males and females averages 2 to 3 hours.

Cytochrome P450 Isoforms

Rizatriptan is not an inhibitor of the activities of human liver cytochrome P450 isoforms 3A4/5, 1A2, 2C9, 2C19, or 2E1; rizatriptan is a competitive inhibitor (Ki=1400 nM) of cytochrome P450 2D6, but only at high, clinically irrelevant concentrations.

Special Populations

Geriatric: Rizatriptan pharmacokinetics in healthy elderly non-migraineur volunteers (age 65 to 77 years) were similar to those in younger non-migraineur volunteers (age 18 to 45 years).

Pediatric: The pharmacokinetics of rizatriptan was determined in pediatric migraineurs 6 to 17 years of age. Exposures following single dose administration of 5 mg rizatriptan benzoate orally disintegrating tablets to pediatric patients weighing 20-39 kg (44-87 lb) or 10 mg rizatriptan benzoate orally disintegrating tablets to pediatric patients weighing ≥40 kg (88 lb) were similar to those observed following single dose administration of 10 mg rizatriptan benzoate orally disintegrating tablets to adults.

Gender: The mean AUC_{0-∞} and C_{max} of rizatriptan (10 mg orally) were about 30% and 11% higher in females as compared to males, respectively, while T_{max} occurred at approximately the same time.

Hepatic impairment: Following oral administration in patients with hepatic impairment caused by mild to moderate alcoholic cirrhosis of the liver, plasma concentrations of rizatriptan were similar in patients with mild hepatic insufficiency compared to a control group of subjects with normal hepatic function; plasma concentrations of rizatriptan were approximately 30% greater in patients with moderate hepatic insufficiency.

Renal impairment: In patients with renal impairment (creatinine clearance 10 to 60 mL/min/1.73 m²), the AUC_{0-∞} of rizatriptan was not significantly different from that in subjects with normal renal function. In hemodialysis patients, (creatinine clearance <2 mL/min/1.73 m²), however, the AUC for rizatriptan was approximately 44% greater than that in patients with normal renal function.

Race: Pharmacokinetic data revealed no significant differences between African American and Caucasian subjects.

Drug Interactions

[See also *Drug Interactions (7.1)*]

Monoamine oxidase inhibitors: Rizatriptan is principally metabolized via monoamine oxidase, 'A' subtype (MAO-A). Plasma concentrations of rizatriptan may be increased by drugs that are selective MAO-A inhibitors (e.g., moclobemide) or nonselective MAO inhibitors [type A and B] (e.g., isocarboxazid, phenelzine, tranylcypromine, and pargyline). In a drug interaction study, when rizatriptan benzoate tablets 10 mg was administered to subjects (n=12) receiving concomitant therapy with the selective, reversible MAO-A inhibitor, moclobemide 150 mg t.i.d., there were mean increases in rizatriptan AUC and C_{max} of 119% and 41% respectively; and the AUC of the active N-monodesmethyl metabolite of rizatriptan was increased more than 400%. The interaction would be expected to be greater with irreversible MAO inhibitors. No pharmacokinetic interaction is anticipated in patients receiving selective MAO-B inhibitors [see *Contraindications (4)* and *Drug Interactions (7.5)*].

Propranolol: In a study of concurrent administration of propranolol 240 mg/day and a single dose of rizatriptan 10 mg in healthy adult subjects (n=11), mean plasma AUC for rizatriptan was increased by 70% during propranolol administration, and a four-fold increase was observed in one subject. The AUC of the active N-monodesmethyl metabolite of rizatriptan was not affected by propranolol [see *Dosage and Administration (2.4)* and *Drug Interactions (7.1)*].

Nadolol/Metoprolol: In a drug interactions study, effects of multiple doses of nadolol 80 mg or metoprolol 100 mg every 12 hours on the pharmacokinetics of a single dose of 10 mg rizatriptan were evaluated in healthy subjects (n=12). No pharmacokinetic interactions were observed.

Paroxetine: In a study of the interaction between the selective serotonin reuptake inhibitor (SSRI) paroxetine 20 mg/day for two weeks and a single dose of rizatriptan benzoate tablets 10 mg in healthy subjects (n=12), neither the plasma concentrations of rizatriptan nor its safety profile were affected by paroxetine [see *Warnings and Precautions (5.7)*, *Drug Interactions (7.4)*, and *Patient Counseling Information (17)*].

Oral contraceptives: In a study of concurrent administration of an oral contraceptive during 6 days of administration of rizatriptan benzoate tablets (10 - 30 mg/day) in healthy female volunteers (n=18), rizatriptan did not affect plasma concentrations of ethinyl estradiol or norethindrone.

13. NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis: Oral carcinogenicity studies were conducted in mice (100 weeks) and rats (106 weeks) at doses of up to 125 mg/kg/day. Plasma exposures (AUC) at the highest dose tested were approximately 150 (mice) and 240 times (rats) that in humans at the maximum recommended daily dose (MRDD) of 30 mg/day. There was no evidence of an increase in tumor incidence related to rizatriptan in either species.

Mutagenesis: Rizatriptan was neither mutagenic nor clastogenic in a battery of *in vitro* and *in vivo* genetic toxicity studies, including: the microbial mutagenesis (Ames) assay, *in vitro* mammalian cell mutagenesis and chromosomal aberration assays, and the *in vivo* chromosomal aberration assay in mouse.

Impairment of Fertility: In a fertility study in rats, altered estrus cyclicity and delays in time to mating were observed in females treated orally with 100 mg/kg/day rizatriptan. The no-effect dose was 10 mg/kg/day (approximately 15 times the human exposure at the MRDD). There were no other fertility-related effects in the female rats. There was no impairment of fertility or reproductive performance in male rats treated with up to 250 mg/kg/day (approximately 550 times the human exposure at the MRDD).

14. CLINICAL STUDIES

14.1 Adults

The efficacy of rizatriptan benzoate tablets was established in four multicenter, randomized,

placebo-controlled trials. Patients enrolled in these studies were primarily female (84%) and Caucasian (88%), with a mean age of 40 years (range of 18 to 71). Patients were instructed to treat a moderate to severe headache. No headache response, defined as a reduction of moderate or severe headache pain to no or mild headache pain, was assessed for up to 2 hours (Study 1) or up to 4 hours after dosing (Studies 2, 3 and 4). Associated symptoms of nausea, photophobia, and phonophobia and maintenance of response up to 24 hours post-dose were evaluated. A second dose of rizatriptan benzoate tablets was allowed 2 to 24 hours after dosing for treatment of recurrent headache in Studies 1 and 2. Additional analgesics and/or antiemetics were allowed 2 hours after initial treatment for rescue in all four studies.

In all studies, the percentage of patients achieving headache response 2 hours after treatment was significantly greater in patients who received either rizatriptan benzoate tablet 5 or 10 mg compared to those who received placebo. In a separate study, doses of 2.5 mg were not different from placebo. Doses greater than 10 mg were associated with an increased incidence of adverse effects. The results from the four controlled studies are summarized in Table 2.

Study	Placebo	Rizatriptan benzoate tablets 5 mg	Rizatriptan benzoate tablets 10 mg
1	35% (n=304)	62%* (n=458)	71%*† (n=456)
2‡	37% (n=82)	—	77% (n=320)
3	23% (n=80)	63%* (n=352)	—
4	40% (n=159)	60%* (n=164)	67%* (n=385)

* p-value <0.05 in comparison with placebo

† p-value <0.05 in comparison with 5 mg

‡ Results for initial headache only.

Comparisons of drug performance based upon results obtained in different clinical trials may not be reliable. Because studies are conducted at different times, with different samples of patients, by different investigators, employing different criteria and/or different interpretations of the same criteria, under different conditions (dose, dosing regimen, etc.), quantitative estimates of treatment response and the timing of response may be expected to vary considerably from study to study.

The estimated probability of achieving an initial headache response within 2 hours following treatment in pooled Studies 1, 2, 3, and 4 is depicted in Figure 1.

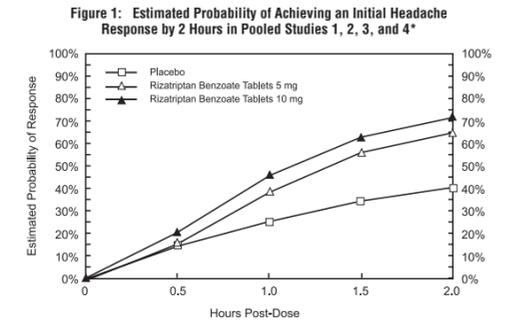
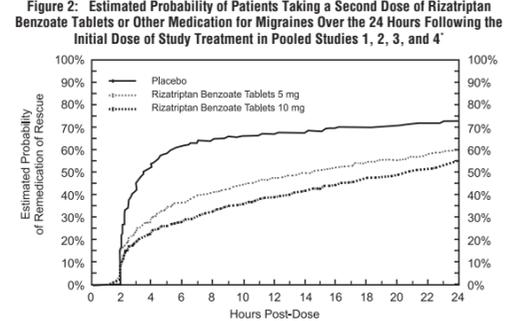


Figure 1 shows the Kaplan-Meier plot of the probability over time of obtaining headache response (no or mild pain) following treatment with rizatriptan benzoate tablets or placebo. The averages displayed are based on pooled data from 4 placebo-controlled, outpatient trials providing evidence of efficacy (Studies 1, 2, 3, and 4). Patients taking additional treatment or not achieving headache response prior to 2 hours were censored at 2 hours.

For patients with migraine-associated photophobia, phonophobia, and nausea at baseline, there was a decreased incidence of these symptoms following administration of rizatriptan benzoate tablets compared to placebo.

Two to 24 hours following the initial dose of study treatment, patients were allowed to use additional treatment for pain response in the form of a second dose of study treatment or other medication. The estimated probability of patients taking a second dose or other medication for migraine over the 24 hours following the initial dose of study treatment is summarized in Figure 2.



* This Kaplan-Meier plot is based on data obtained in 4 placebo-controlled outpatient clinical trials (Studies 1, 2, 3, and 4). Patients not using additional treatments were censored at 24 hours. The plot includes both patients who had headache response at 2 hours and those who had no response to the initial dose. Remedication was not allowed within 2 hours post-dose.

Efficacy was unaffected by the presence of aura; by the gender, or age of the patient; or by concomitant use of common migraine prophylactic drugs (e.g., beta-blockers, calcium channel blockers, tricyclic antidepressants) or oral contraceptives. In two additional similar studies, efficacy was unaffected by relationship to menses. There were insufficient data to assess the impact of race on efficacy.

14.2 Pediatric Patients 6 to 17 Years of Age

The efficacy of rizatriptan benzoate orally disintegrating tablets in pediatric patients 6 to 17 years was evaluated in a multicenter, randomized, double-blind, placebo-controlled, parallel group clinical trial (Study 7). Patients had to have at least a 6-month history of migraine

attacks (with or without aura) usually lasting 3 hours or more (when untreated). The patient population was historically non-responsive to NSAIDs and acetaminophen therapy.

Patients were instructed to treat a single migraine attack with headache pain of moderate to severe intensity. The treatment phase of the study had two stages. Stage 1 was used to identify placebo non-responders, who then entered into Stage 2, in which patients were randomized to rizatriptan benzoate orally disintegrating tablets or placebo. Using a weight-based dosing strategy, patients 20 kg to <40 kg (44 lb to <88 lb) received rizatriptan benzoate orally disintegrating tablets 5 mg or placebo, and patients ≥40 kg (88 lb) received rizatriptan benzoate orally disintegrating tablets 10 mg or placebo.

The mean age for the studied patient population was 13 years. Sixty-one percent of the patients were Caucasian, and fifty-six percent of the patients were female. The percentage of patients achieving the primary efficacy endpoint of no headache pain at 2 hours after treatment was significantly greater in patients who received rizatriptan benzoate orally disintegrating tablets, compared with those who received placebo (33% vs. 24%). Study 7 results are summarized in Table 3.

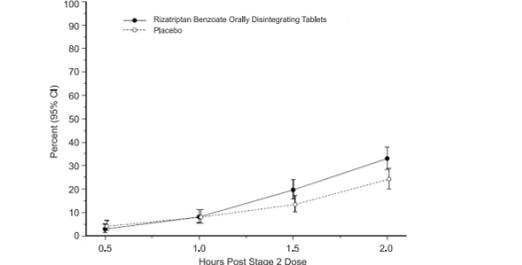
Endpoint	Placebo	Rizatriptan benzoate orally disintegrating tablets	p-Value
No headache pain at 2 hours post-dose	24% (n/m = 94/388)	33% (n/m = 126/382)	0.01

n = Number of evaluable patients with no headache pain at 2 hours post-dose.

m = Number of evaluable patients in population.

The observed percentage of pediatric patients achieving no headache pain within 2 hours following initial treatment with rizatriptan benzoate orally disintegrating tablets is shown in Figure 3.

Figure 3: Observed Percentage of Patients Reporting No Headache Pain by 2 Hours Post-Dose in Study 7



The prevalence of the exploratory endpoints of absence of migraine-associated symptoms (nausea, photophobia, and phonophobia) at 2 hours after taking the dose was not statistically significantly different between patients who received rizatriptan benzoate orally disintegrating tablets and those who received placebo.

16. HOW SUPPLIED/STORAGE AND HANDLING

Rizatriptan benzoate tablets 5 mg are available as light pink, oval shaped, biconvex, uncoated tablets with 'C181' debossed on one side and Plain on other side, containing 7.265 mg rizatriptan benzoate USP equivalent to rizatriptan 5 mg.

Rizatriptan benzoate tablets, 5mg - Bottle of 12 tablets NDC 69097-181-65
Bottle of 18 tablets NDC 69097-181-66

Rizatriptan benzoate tablets 10 mg are available as light pink, oval shaped, biconvex, uncoated tablets with 'C182' debossed on one side and Plain on other side, containing 14.53 mg rizatriptan benzoate USP equivalent to rizatriptan 10 mg.

Rizatriptan Benzoate Tablets, 10 mg - Bottle of 12 tablets NDC 69097-182-65
Bottle of 18 tablets NDC 69097-182-66

Storage

Store at 20°C to 25