

BRIMONIDINE TARTRATE - brimonidine tartrate solution/ drops

Gland Pharma Limited

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use **BRIMONIDINE TARTRATE OPHTHALMIC SOLUTION** safely and effectively. See full prescribing information for **BRIMONIDINE TARTRATE OPHTHALMIC SOLUTION**.

BRIMONIDINE TARTRATE ophthalmic solution 0.1%, for topical ophthalmic use

Initial U.S. Approval: 1996

RECENT MAJOR CHANGES

Warnings and Precautions (5.3)
9/2025

INDICATIONS AND USAGE

Brimonidine tartrate ophthalmic solution is an alpha adrenergic agonist indicated for the reduction of elevated intraocular pressure (IOP) in patients with open-angle glaucoma or ocular hypertension. (1)

DOSAGE AND ADMINISTRATION

One drop in the affected eye(s) three times daily, approximately 8 hours apart. (2)

DOSAGE FORMS AND STRENGTHS

Ophthalmic solution containing 0.1% (1 mg/mL) brimonidine tartrate. (3)

CONTRAINDICATIONS

- Neonates and infants (pediatric patients younger than 2 years old). (4.1)
- Hypersensitivity Reactions. (4.2)

WARNINGS AND PRECAUTIONS

Potential of vascular insufficiency. (5.1)

ADVERSE REACTIONS

Most common adverse reactions occurring in approximately 5% to 20% of patients receiving brimonidine ophthalmic solution (0.1% to 0.2%) included allergic conjunctivitis, burning sensation, conjunctival folliculosis, conjunctival hyperemia, eye pruritus, hypertension, ocular allergic reaction, oral dryness, and visual disturbance. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Gland Pharma Limited at 866-770-7144 or the FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

- Antihypertensives/cardiac glycosides may lower blood pressure. (7.1)
- Use with CNS depressants may result in an additive or potentiating effect. (7.2)
- Tricyclic antidepressants may potentially blunt the hypotensive effect of systemic clonidine. (7.3)
- Monoamine oxidase inhibitors may result in increased hypotension. (7.4)

USE IN SPECIFIC POPULATIONS

Use with caution in pediatric patients aged 2 years and older. (8.4)

See 17 for PATIENT COUNSELING INFORMATION.

Revised: 3/2026

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

Brimonidine tartrate ophthalmic solution 0.1% is indicated for the reduction of elevated intraocular pressure (IOP) in patients with open-angle glaucoma or ocular hypertension.

2 DOSAGE AND ADMINISTRATION

The recommended dosage is one drop of brimonidine tartrate ophthalmic solution in the affected eye(s) three times daily, approximately 8 hours apart. Brimonidine tartrate ophthalmic solution may be used concomitantly with other topical ophthalmic drug products to lower intraocular pressure. If more than one topical ophthalmic product is to be used, the different products should be instilled at least 5 minutes apart.

3 DOSAGE FORMS AND STRENGTHS

Ophthalmic solution containing 0.1% (1 mg/mL) brimonidine tartrate.

4 CONTRAINDICATIONS

4.1 Neonates and Infants (Pediatric Patients Younger than 2 Years Old)

Brimonidine tartrate ophthalmic solution is contraindicated in neonates and infants (pediatric patients younger than 2 years old) [*See Use in Specific Populations (8.4)*].

4.2 Hypersensitivity Reactions

Brimonidine tartrate ophthalmic solution is contraindicated in patients who have exhibited a hypersensitivity reaction to any component of this medication in the past.

5 WARNINGS AND PRECAUTIONS

5.1 Potentiation of Vascular Insufficiency

Brimonidine tartrate ophthalmic solution may potentiate syndromes associated with vascular insufficiency. Brimonidine tartrate ophthalmic solution should be used with caution in patients with depression, cerebral or coronary insufficiency, Raynaud's phenomenon, orthostatic hypotension, or thromboangiitis obliterans.

5.2 Severe Cardiovascular Disease

Although brimonidine tartrate ophthalmic solution had minimal effect on the blood pressure of patients in clinical studies, caution should be exercised in treating patients with severe cardiovascular disease.

5.3 Contamination of Topical Ophthalmic Products After Use

There have been reports of bacterial keratitis associated with the use of multiple-dose containers of topical ophthalmic products. These containers had been inadvertently contaminated by patients who, in most cases, had a concurrent corneal disease or a disruption of the ocular epithelial surface. Do not touch the tip of the dispensing container to the eye or surrounding structures. Serious damage to the eye and subsequent loss of vision may result from using contaminated solutions [*see Patient Counseling Information (17)*].

6 ADVERSE REACTIONS

The following serious adverse reactions are described elsewhere in the labeling:

- Potentiation of Vascular Insufficiency [*see Warnings and Precautions (5.1)*]
- Severe Cardiovascular Disease [*see Warnings and Precautions (5.2)*]
- Contamination of Topical Ophthalmic Products after Use [*see Warnings and Precautions (5.3)*]
- Neonates and Infants (Pediatric Patients Younger than 2 Years Old) [*see Contraindications (4.1)*]

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.

Adverse reactions occurring in approximately 10% to 20% of the subjects receiving brimonidine ophthalmic solution (0.1% to 0.2%) included: allergic conjunctivitis, conjunctival hyperemia, and eye pruritus. Adverse reactions occurring in approximately 5% to 9% included: burning sensation, conjunctival folliculosis, hypertension, ocular allergic reaction, oral dryness, and visual disturbance.

Adverse reactions occurring in approximately 1% to 4% of the subjects receiving brimonidine ophthalmic solution (0.1% to 0.2%) included: abnormal taste, allergic reaction, asthenia, blepharitis, blepharoconjunctivitis, blurred vision, bronchitis, cataract, conjunctival edema, conjunctival hemorrhage, conjunctivitis, cough, dizziness, dyspepsia, dyspnea, epiphora, eye discharge, eye dryness, eye irritation, eye pain, eyelid edema, eyelid erythema, fatigue, flu syndrome, follicular conjunctivitis, foreign body sensation, gastrointestinal disorder, headache, hypercholesterolemia, hypotension, infection (primarily colds and respiratory infections), insomnia, keratitis, lid disorder, pharyngitis, photophobia, rash, rhinitis, sinus infection, sinusitis, somnolence, stinging, superficial punctate keratopathy, tearing, visual field defect, vitreous detachment, vitreous disorder, vitreous floaters, and worsened visual acuity.

The following reactions were reported in less than 1% of subjects: corneal erosion, hordeolum, nasal dryness, and taste perversion.

6.2 Postmarketing Experience

The following reactions have been identified during postapproval use of brimonidine tartrate ophthalmic solutions. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

- Bradycardia, depression, hypersensitivity, iritis, keratoconjunctivitis sicca, miosis, nausea, skin reactions (including erythema, eyelid pruritus, rash, and vasodilation), syncope, and tachycardia.
- Apnea, coma, hypotension, hypothermia, hypotonia, lethargy, pallor, respiratory depression, and somnolence have been reported in infants receiving brimonidine tartrate ophthalmic solutions.

7 DRUG INTERACTIONS

7.1 Antihypertensives/Cardiac Glycosides

Because brimonidine tartrate ophthalmic solution may reduce blood pressure, caution in using drugs such as antihypertensives and/or cardiac glycosides with brimonidine tartrate ophthalmic solution is advised.

7.2 CNS Depressants

Although specific drug interaction studies have not been conducted with brimonidine tartrate ophthalmic solution, the possibility of an additive or potentiating effect with CNS depressants (alcohol, barbiturates, opiates, sedatives, or anesthetics) should be considered.

7.3 Tricyclic Antidepressants

Tricyclic antidepressants have been reported to blunt the hypotensive effect of systemic clonidine. It is not known whether the concurrent use of these agents with brimonidine tartrate ophthalmic solution in humans can lead to resulting interference with the IOP lowering effect. Caution is advised in patients taking tricyclic antidepressants which can affect the metabolism and uptake of circulating amines.

7.4 Monoamine Oxidase Inhibitors

Monoamine oxidase (MAO) inhibitors may theoretically interfere with the metabolism of brimonidine and potentially result in an increased systemic side-effect such as hypotension. Caution is advised in patients taking MAO inhibitors which can affect the metabolism and uptake of circulating amines.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

There are no adequate and well-controlled studies with brimonidine tartrate ophthalmic solution in pregnant women. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively.

In animal studies, brimonidine crossed the placenta and entered into the fetal circulation to a limited extent (see Data). Because animal reproduction studies are not always predictive of human response, brimonidine tartrate ophthalmic solution should be used during pregnancy only if the potential benefit to the mother justifies the potential risk to the fetus.

Data

Human Data

Limited available data from postmarketing safety reports and published literature with topical use of brimonidine ophthalmic solution in pregnant women are insufficient to inform a drug-associated risk of pregnancy-related adverse outcomes including miscarriage, stillbirth, congenital anomaly, and events experienced by offspring while breastfeeding.

Animal Data

Embryofetal studies were conducted in pregnant rabbits administered brimonidine tartrate by daily oral gavage on gestation days 6 to 18, to target the period of organogenesis. Brimonidine caused miscarriage at 5 mg/kg/day (approximately 70-times the recommended human ophthalmic dose [RHOD] based on AUC, for brimonidine tartrate 0.1%). The no observed adverse effect level (NOAEL) for developmental toxicity in rabbits was 1 mg/kg/day (approximately 9-fold the RHOD based on AUC, for brimonidine tartrate 0.1%). No treatment-related malformations were observed in rabbits. Signs of maternal sedation and fatigue were observed at all dose levels; the lowest observed adverse effect level (LOAEL) for maternal toxicity was 5 mg/kg/day, based on the dose response for these signs.

Embryofetal studies were conducted in pregnant rats administered brimonidine tartrate by daily oral gavage on gestation days 6 to 15, to target the period of organogenesis. The NOAEL for developmental toxicity was 2.5 mg/kg/day (approximately 1100-fold the RHOD based on AUC, for brimonidine tartrate 0.1%). No treatment-related malformations were observed in rats. The LOAEL for maternal toxicity was 2.5 mg/kg/day, based on signs of sedation and fatigue. The maternal NOAEL was 1.0 mg/kg/day (250-fold the RHOD based on AUC, for brimonidine tartrate 0.1%).

After pregnant rats received a single oral dose of ¹⁴C-brimonidine tartrate, brimonidine and metabolites crossed the placenta and were detectable in fetal blood and organs.

8.2 Lactation

Risk Summary

It is not known whether brimonidine tartrate is excreted in human milk. In animal studies, brimonidine tartrate has been shown to cross the blood-brain barrier and is excreted into breast milk after oral administration to lactating rats (see Data). Because of the potential for serious adverse reactions, including central nervous system depression and apnea, from brimonidine tartrate ophthalmic solution in nursing infants, brimonidine tartrate ophthalmic solution is not recommended for use during lactation.

Data

Animal Data

After a single oral dose of ¹⁴C-labeled brimonidine tartrate to lactating rats, brimonidine and metabolites were detected in milk. After male and female rats received a single oral dose of ¹⁴C-brimonidine tartrate, brimonidine crossed the blood-brain barrier. Radiolabel was detected in the cerebellum, cerebrum, and spinal cord.

8.4 Pediatric Use

Brimonidine tartrate ophthalmic solution is contraindicated in pediatric patients younger than 2 years old [see *Contraindications (4.1)*]. During postmarketing surveillance, apnea, bradycardia, coma, hypotension, hypothermia, hypotonia, lethargy, pallor, respiratory depression, and somnolence have been reported in infants receiving brimonidine.

In a well-controlled clinical study conducted in pediatric glaucoma patients aged 2 to 7 years old, the most commonly observed adverse reactions with brimonidine tartrate ophthalmic solution 0.2% dosed three times daily were somnolence (50% to 83% in

pediatric patients aged 2 to 6 years old) and decreased alertness. In pediatric patients aged 7 years and older (greater than 20 kg), somnolence appears to occur less frequently (25%). Approximately 16% of pediatric patients on brimonidine tartrate ophthalmic solution 0.2% discontinued from the study due to somnolence.

8.5 Geriatric Use

No overall differences in safety or effectiveness have been observed between elderly and other adult patients.

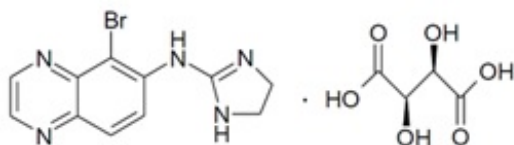
10 OVERDOSAGE

Limited information exists on accidental ingestion of brimonidine in adults; the only adverse reaction reported to date has been hypotension. Symptoms of brimonidine overdose have been reported in neonates, infants, and children receiving brimonidine tartrate ophthalmic solution as part of medical treatment of congenital glaucoma or by accidental oral ingestion [see *Use in Specific Populations (8.4)*]. Treatment of an oral overdose includes supportive and symptomatic therapy; a patent airway should be maintained.

11 DESCRIPTION

Brimonidine tartrate ophthalmic solution 0.1%, sterile, is a relatively selective alpha-2 adrenergic receptor agonist for topical ophthalmic use.

The structural formula of brimonidine tartrate is:



5-Bromo-6-[2-imidazoline-2-yl-amino]-quinoxalinetartrate; MW = 442.22

In solution, brimonidine tartrate ophthalmic solution has a clear, greenish-yellow color. It has an osmolality of 250 to 350 mOsmol/kg and a pH of 7.4 to 8.0.

Brimonidine tartrate appears as a pale yellow colored powder to wheatish colored powder and is soluble in water, practically insoluble in anhydrous Ethanol and in Toluene.

Each mL of brimonidine tartrate ophthalmic solution contains the active ingredient brimonidine tartrate 0.1% (1 mg/mL) with the inactive ingredients sodium carboxymethylcellulose; sodium borate; boric acid; sodium chloride; potassium chloride; calcium chloride; magnesium chloride; stabilized oxychloro complex solution 0.005% (0.05 mg/mL) as a preservative; water for injection; and hydrochloric acid and/or sodium hydroxide to adjust pH.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Brimonidine tartrate ophthalmic solution is a relatively selective alpha-2 adrenergic receptor agonist with a peak ocular hypotensive effect occurring at two hours post-dosing.

Fluorophotometric studies in animals and humans suggest that brimonidine tartrate has a dual mechanism of action by reducing aqueous humor production and increasing uveoscleral outflow.

12.3 Pharmacokinetics

Absorption

After ocular administration of either a 0.1% or 0.2% solution, plasma concentrations peaked within 0.5 to 2.5 hours and declined with a systemic half-life of approximately 2 hours.

Distribution

Brimonidine was approximately 29% bound to plasma proteins in healthy subjects.

Elimination

Metabolism

In humans, brimonidine is extensively metabolized by the liver.

Excretion

Urinary excretion is the major route of elimination of brimonidine and its metabolites. Approximately 87% of an orally-administered radioactive dose of brimonidine was eliminated within 120 hours, with 74% found in the urine.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis

No compound-related carcinogenic effects were observed in either mice or rats following a 21-month and 24-month study, respectively. In these studies, dietary administration of brimonidine tartrate at doses up to 2.5 mg/kg/day in mice and 1 mg/kg/day in rats achieved approximately 150 and 93 times the recommended human ophthalmic dose (RHOD) based on C_{max} for brimonidine tartrate 0.1%.

Mutagenesis

Brimonidine tartrate was not mutagenic or clastogenic in a series of *in vitro* and *in vivo* studies including the Ames bacterial reversion test, chromosomal aberration assay in Chinese Hamster Ovary (CHO) cells, and three *in vivo* studies in CD-1 mice: a host-mediated assay, cytogenetic study, and dominant lethal assay.

Impairment of Fertility

A reproduction and fertility study in rats with brimonidine tartrate demonstrated no adverse effect on male or female fertility at oral doses up to 1 mg/kg (approximately 250 times the recommended human ophthalmic dose [RHOD] based on estimated AUC) for brimonidine tartrate 0.1%.

14 CLINICAL STUDIES

Elevated IOP presents a major risk factor in glaucomatous field loss. The higher the level of IOP, the greater the likelihood of optic nerve damage and visual field loss. Brimonidine tartrate has the action of lowering intraocular pressure with minimal effect on cardiovascular and pulmonary parameters.

A clinical study was conducted to evaluate the safety, efficacy, and acceptability of brimonidine tartrate ophthalmic solution 0.1% compared with ALPHAGAN administered three-times-daily in patients with open-angle glaucoma or ocular hypertension. Those results indicated that brimonidine tartrate ophthalmic solution 0.1% is equivalent in IOP lowering effect to ALPHAGAN (brimonidine tartrate ophthalmic solution) 0.2%, and effectively lowers IOP in patients with open-angle glaucoma or ocular hypertension by approximately 2 to 6 mmHg.

16 HOW SUPPLIED/STORAGE AND HANDLING

Brimonidine tartrate ophthalmic solution 0.1% is supplied sterile, in green LDPE bottles and nozzles, with purple high density polyethylene (HDPE) caps as follows:

0.1%

5 mL in 10 mL bottle	NDC 68083-626-05
10 mL in 10 mL bottle	NDC 68083-626-10
15 mL in 15 mL bottle	NDC 68083-626-15

Storage: Store at 15°C to 25°C (59°F to 77°F).

17 PATIENT COUNSELING INFORMATION

Handling the Container

Instruct patients that ocular solutions, if handled improperly or if the tip of the dispensing container contacts the eye or surrounding structures, can become contaminated by common bacteria known to cause ocular infections. Serious damage to the eye and subsequent loss of vision may result from using contaminated solutions [see Warnings and Precautions (5.3)]. Always replace the cap after using. If solution changes color or becomes cloudy, do not use. Do not use the product after the expiration date marked on the bottle.

When to Seek Physician Advice

Advise patients that if they have ocular surgery or develop an intercurrent ocular condition (e.g., trauma or infection), they should immediately seek their physician's advice concerning the continued use of the present multidose container.

Use with Other Ophthalmic Drugs

Advise patients that if more than one topical ophthalmic drug is being used, the drugs should be administered at least five minutes apart.

Potential for Decreased Mental Alertness

As with other similar medications, brimonidine tartrate ophthalmic solution may cause fatigue and/or drowsiness in some patients. Caution patients who engage in hazardous activities of the potential for a decrease in mental alertness.

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Manufactured by:



Gland Pharma Limited

D.P.Pally, Dundigal Post,

Hyderabad - 500043, India.

PACKAGE LABEL.PRINCIPAL DISPLAY PANEL

Container Label-5 mL

NDC 68083-626-05 **Rx only**

Brimonidine Tartrate

Ophthalmic Solution


0.1%

5 mL For eye use only Sterile

NDC 68083-626-05 **Rx only**

Brimonidine Tartrate
Ophthalmic Solution

0.1%




5 mL For eye use only Sterile

USUAL DOSAGE: One drop three times daily to affected eye(s).

Storage: Store at 15° to 25°C (59° to 77°F).

Note: Bottle filled to 1/2 capacity.

M.L.No.: 103/AP/RR/97/F/R
1311XXXXXX-XX



(01) 00368083626051

Manufactured by:
Gland Pharma Limited
D.P.Pally, Dundigal Post,
Hyderabad - 500043, India.

LOT:
EXP.:

Unvarnished Area
18 x 10 mm

Carton Label-5 mL
NDC 68083-626-05 **Rx only**
Brimonidine Tartrate
Ophthalmic Solution
0.1%
For eye use only
5 mL Sterile




Container Label-10 mL
 NDC 68083-626-10 **Rx only**
Brimonidine Tartrate
Ophthalmic Solution
0.1%
10 mL For eye use only Sterile

NDC 68083-626-10 Rx only

Brimonidine Tartrate
Ophthalmic Solution

0.1%




10 mL For eye use only Sterile

USUAL DOSAGE: One drop three times daily to affected eye(s).

Storage: Store at 15° to 25°C (59° to 77°F).

M.L.No.: 103/AP/RR/97/F/R
1311XXXXXX-XX



(01) 00368083626105

LOT:
EXP.:

Manufactured by:
Gland Pharma Limited
D.P.Pally, Dundigal Post,
Hyderabad - 500043, India.

Unvarnished Area
18 x 10 mm

Carton Label-10 mL

NDC 68083-626-10 Rx only

Brimonidine Tartrate
Ophthalmic Solution

0.1%

For eye use only

10 mL Sterile



Container Label-15 mL

NDC 68083-626-15 **Rx only**

**Brimonidine Tartrate
Ophthalmic Solution**

0.1%

15 mL For eye use only Sterile

NDC 68083-626-15

Rx only

Brimonidine Tartrate Ophthalmic Solution

0.1%



15 mL

For eye use only

Sterile

Contains: Active:
Brimonidine tartrate 0.1%

Preservative:
Stabilized Oxychloro
Complex (solution) 0.005%

USUAL DOSAGE:
One drop three times daily
to affected eye(s).

Storage:
Store at 15° to 25°C (59° to 77°F).



Manufactured by:

GLAND PHARMA LIMITED
D.P.Pally, Dundigal Post,
Hyderabad - 500043, India.

M.L.No.: 103/AP/RR/97/F/R

1311XXXXXX-XX

LOT:

EXP:

Unvarnished Area
18 x 10 mm

Carton Label-15 mL

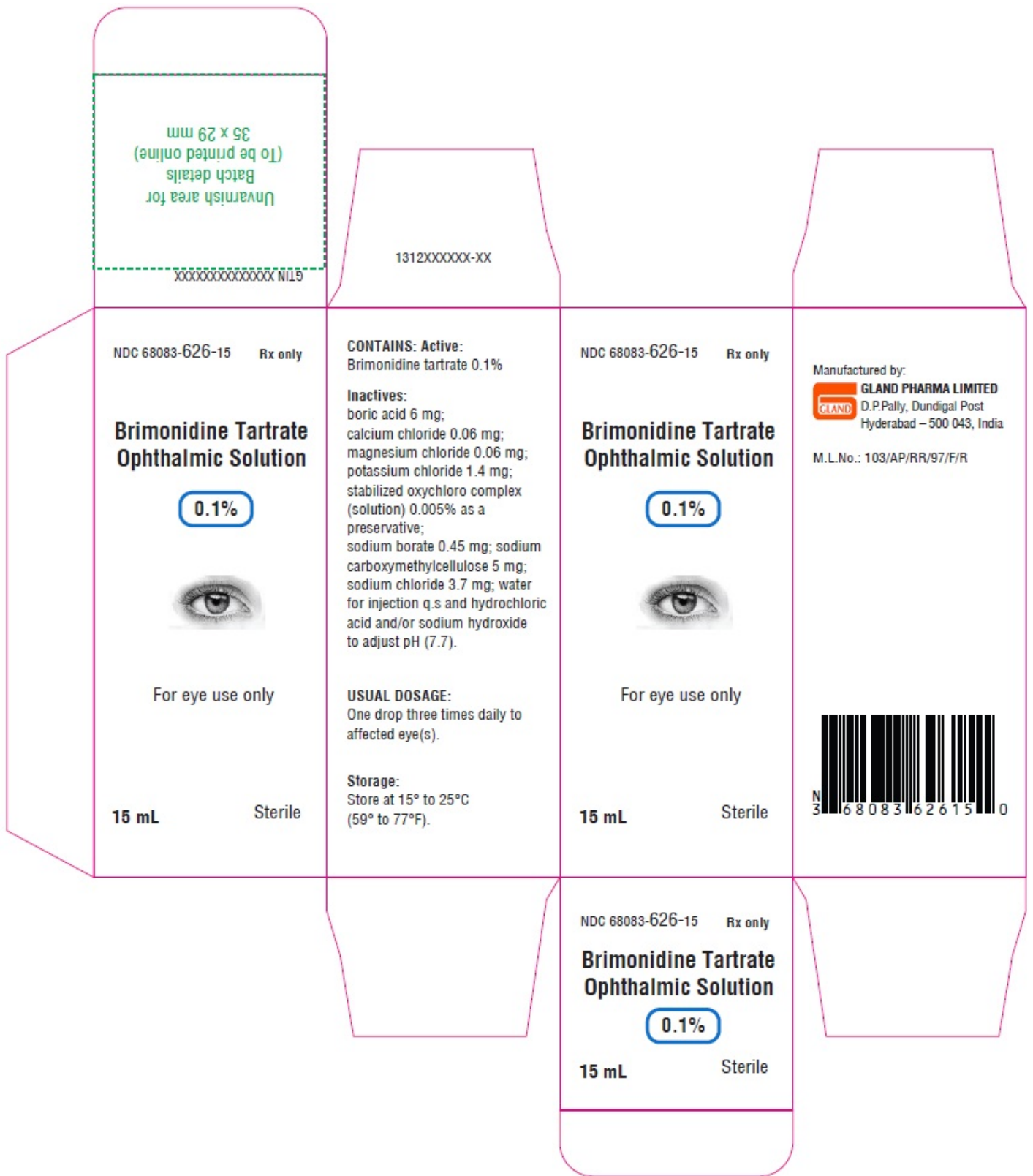
NDC 68083-626-15 **Rx only**

**Brimonidine Tartrate
Ophthalmic Solution**

0.1%

For eye use only

15 mL Sterile



BRIMONIDINE TARTRATE

brimonidine tartrate solution/ drops

Product Information

Product Type

HUMAN PRESCRIPTION DRUG

Item Code (Source)

NDC:68083-626

Route of Administration OPTHALMIC

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
BRIMONIDINE TARTRATE (UNII: 4S9CL2DY2H) (BRIMONIDINE - UNII:E6GNX3HHTE)	BRIMONIDINE TARTRATE	1 mg in 1 mL

Inactive Ingredients

Ingredient Name	Strength
CARBOXYMETHYLCELLULOSE SODIUM, UNSPECIFIED (UNII: K679OBS311)	
SODIUM BORATE (UNII: 91MBZ8H3QO)	
BORIC ACID (UNII: R57ZHV85D4)	
SODIUM CHLORIDE (UNII: 451W47IQ8X)	
POTASSIUM CHLORIDE (UNII: 660YQ98I10)	
CALCIUM CHLORIDE (UNII: M4I0D6VV5M)	
MAGNESIUM CHLORIDE (UNII: 02F3473H9O)	
WATER (UNII: 059QF0KO0R)	
HYDROCHLORIC ACID (UNII: QTT17582CB)	
SODIUM HYDROXIDE (UNII: 55X04QC32I)	
SODIUM CHLORITE (UNII: G538EBV4VF)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:68083-626-05	1 in 1 CARTON	03/11/2026	
1		5 mL in 1 BOTTLE; Type 2: Prefilled Drug Delivery Device/System (syringe, patch, etc.)		
2	NDC:68083-626-10	1 in 1 CARTON	03/11/2026	
2		10 mL in 1 BOTTLE; Type 2: Prefilled Drug Delivery Device/System (syringe, patch, etc.)		
3	NDC:68083-626-15	1 in 1 CARTON	03/11/2026	
3		15 mL in 1 BOTTLE; Type 2: Prefilled Drug Delivery Device/System (syringe, patch, etc.)		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA219219	03/11/2026	

Labeler - Gland Pharma Limited (918601238)

Establishment

Name	Address	ID/FEI	Business Operations
GLAND PHARMA LIMITED		918601238	ANALYSIS(68083-626) , LABEL(68083-626) , MANUFACTURE(68083-626) , PACK(68083-626)

Revised: 3/2026

Gland Pharma Limited