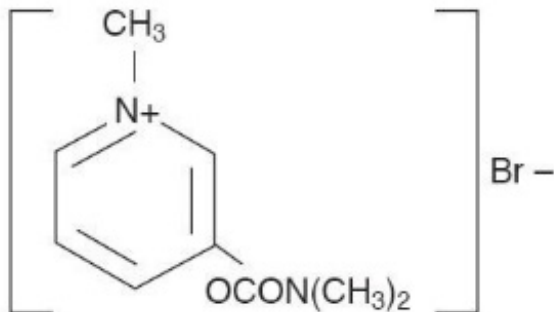


PYRIDOSTIGMINE BROMIDE- pyridostigmine bromide tablet
ANI Pharmaceuticals, Inc.

Pyridostigmine Bromide Tablets USP

DESCRIPTION

Pyridostigmine bromide is an orally active cholinesterase inhibitor. Chemically, pyridostigmine bromide is 3-hydroxy-1-methylpyridinium bromide dimethylcarbamate. Its structural formula is:



Each Pyridostigmine Bromide Tablet USP intended for oral administration contains 60 mg of pyridostigmine bromide USP. In addition, each tablet contains the following inactive ingredients: anhydrous lactose, colloidal silicon dioxide and stearic acid.

CLINICAL PHARMACOLOGY

Pyridostigmine bromide inhibits the destruction of acetylcholine by cholinesterase and thereby permits freer transmission of nerve impulses across the neuromuscular junction. Pyridostigmine is an analog of neostigmine (Prostigmin™), but differs from it in certain clinically significant respects; for example, pyridostigmine is characterized by a longer duration of action and fewer gastrointestinal side effects.

INDICATIONS AND USAGE

Pyridostigmine Bromide Tablets USP are useful in the treatment of myasthenia gravis.

CONTRAINDICATIONS

Pyridostigmine bromide tablets are contraindicated in mechanical intestinal or urinary obstruction, and particular caution should be used in its administration to patients with bronchial asthma. Care should be observed in the use of atropine for counteracting side effects, as discussed below.

WARNINGS

Although failure of patients to show clinical improvement may reflect underdosage, it can also be indicative of overdosage. As is true of all cholinergic drugs, overdosage of pyridostigmine bromide may result in cholinergic crisis, a state characterized by increasing muscle weakness which, through involvement of the muscles of respiration, may lead to death. Myasthenic crisis due to an increase in the severity of the disease is also accompanied by extreme muscle weakness, and thus may be difficult to distinguish from cholinergic crisis on a symptomatic basis. Such differentiation is extremely important, since increases in doses of pyridostigmine bromide or other drugs of this class in the presence of cholinergic crisis or of a refractory or "insensitive" state could have grave consequences. Osserman and Genkins¹ indicate that the differential diagnosis of the two types of crisis may require the use of Tensilon™ (edrophonium chloride) as well as clinical judgment. The treatment of the two conditions obviously differs radically. Whereas the presence of myasthenic crisis suggests the need for more intensive anticholinesterase therapy, the diagnosis of cholinergic crisis, according to Osserman and Genkins¹ calls for the prompt *withdrawal* of all drugs of this type. The immediate use of atropine in cholinergic crisis is also recommended.

Atropine may also be used to abolish or obtund gastrointestinal side effects or other muscarinic reactions; but such use, by masking signs of overdosage, can lead to inadvertent induction of cholinergic crisis.

For detailed information on the management of patients with myasthenia gravis, the physician is referred to one of the excellent reviews such as those by Osserman and Genkins², Grob³ or Schwab^{4,5}.

Usage in Pregnancy

The safety of pyridostigmine bromide during pregnancy or lactation in humans has not been established. Therefore, use of pyridostigmine bromide in women who may become pregnant requires weighing the drug's potential benefits against its possible hazards to mother and child.

PRECAUTIONS

Pyridostigmine is mainly excreted unchanged by the kidney^{6,7,8}. Therefore, lower doses may be required in patients with renal disease, and treatment should be based on titration of drug dosage to effect^{6,7}.

Pediatric Use

Safety and effectiveness in pediatric patients have not been established.

ADVERSE REACTIONS

The side effects of pyridostigmine bromide are most commonly related to overdosage and generally are of two varieties, muscarinic and nicotinic. Among those in the former group are nausea, vomiting, diarrhea, abdominal cramps, increased peristalsis, increased salivation, increased bronchial secretions, miosis and diaphoresis. Nicotinic side effects are comprised chiefly of muscle cramps, fasciculation and weakness. Muscarinic side effects can usually be counteracted by atropine, but for reasons shown

in the preceding section the expedient is not without danger. As with any compound containing the bromide radical, a skin rash may be seen in an occasional patient. Such reactions usually subside promptly upon discontinuance of the medication.

To report SUSPECTED ADVERSE REACTIONS, contact ANI Pharmaceuticals, Inc. at 1-800-308-6755 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DOSAGE AND ADMINISTRATION

Each Pyridostigmine Bromide Tablet contains 60 mg pyridostigmine bromide.

Dosage

The size and frequency of the dosage must be adjusted to the needs of the individual patient.

The average dose is ten 60 mg tablets daily, spaced to provide maximum relief when maximum strength is needed. In severe cases as many as twenty-five tablets a day may be required, while in mild cases one to six tablets a day may suffice.

NOTE: For information on a diagnostic test for myasthenia gravis, and for the evaluation and stabilization of therapy, please see product literature on Tensilon (edrophonium chloride).

HOW SUPPLIED

Pyridostigmine Bromide Tablets USP, 60 mg are white, round, flat-faced, beveled edge tablets with a quadrisectional score on one side and debossed with 'ANI' over '470' on the other and are supplied in bottles of 100 (NDC 62559-470-01).

Store at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature]. Dispense in original container. Keep Pyridostigmine Bromide Tablets USP in a dry place with the silica gel enclosed.

REFERENCES

1. Osserman KE, Genkins G. Studies in myasthenia gravis: Reduction in mortality rate after crisis. *JAMA*. Jan 1963; 183:97-101.
2. Osserman KE, Genkins G. Studies in myasthenia gravis. *NY State J Med*. June 1961; 61:2076-2085.
3. Grob D. Myasthenia gravis. A review of pathogenesis and treatment. *Arch Intern Med*. Oct 1961; 108:615-638.
4. Schwab RS. Management of myasthenia gravis. *New Eng J Med*. Mar 1963; 268:596-597.
5. Schwab RS. Management of myasthenia gravis. *New Eng J Med*. Mar 1963; 268:717-719.
6. Cronnelly R, Stanski DR, Miller RD, Sheiner LB. Pyridostigmine kinetics with and without renal function. *Clin Pharmacol Ther*. 1980; 28:No. 1, 78-81.
7. Miller RD. Pharmacodynamics and pharmacokinetics of anticholinesterase. In: Ruegheimer E, Zindler M, ed. *Anaesthesiology*. (Hamburg, Germany: Congress; Sep

14-21, 1980; 222-223.) (Int Congr. No. 538), Amsterdam, Netherlands: Excerpta Medica; 1981.

8. Breyer-Pfaff U, Maier U, Brinkmann AM, Schumm F. Pyridostigmine kinetics in healthy subjects and patients with myasthenia gravis. *Clin Pharmacol Ther.* 1985;5:495-501.

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Distributed by:
ANI Pharmaceuticals, Inc.
Baudette, MN 56623



9894 Rev 08/23

PACKAGE/LABEL PRINCIPAL DISPLAY PANEL

Pyridostigmine Bromide Tablets USP, 60 mg

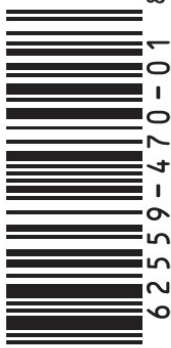


NDC 62559-470-01

Unit-of-Use

CAUTION: Extremely moisture sensitive. Do not remove desiccant. Close tightly.

Rx only

100 Tablets

NDC 62559-470-01	Unit-of-Use	Each tablet contains: Pyridostigmine Bromide USP..... 60 mg	GTIN: 00362559000000 EXP: YYYY/MMM LOT: 1234567 SN: A1234567890123	 3 62559-470-01 8
Pyridostigmine Bromide Tablets USP		IMPORTANT: These tablets are hygroscopic. Keep in a dry place with the silica gel enclosed. Dispense in original container. Usual Dosage: See accompanying prescribing information. Store at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature]. Preserve in a tight, light-resistant container.		
60 mg		KEEP THIS AND ALL MEDICATION OUT OF THE REACH OF CHILDREN.		
CAUTION: Extremely moisture sensitive. Do not remove desiccant. Close tightly.		Distributed by: ANI Pharmaceuticals, Inc. Baudette, MN 56623		
	Rx only 100 Tablets		9893 Rev 08/23	

PYRIDOSTIGMINE BROMIDE

pyridostigmine bromide tablet

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:62559-470
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Route of Administration	ORAL			
Active Ingredient/Active Moiety				
	Ingredient Name	Basis of Strength	Strength	
	PYRIDOSTIGMINE BROMIDE (UNII: KVI301NA53) (PYRIDOSTIGMINE - UNII:19QM69HH21)	PYRIDOSTIGMINE BROMIDE	60 mg	
Inactive Ingredients				
	Ingredient Name	Strength		
	ANHYDROUS LACTOSE (UNII: 3SY5LH9PMK)			
	SILICON DIOXIDE (UNII: ETJ7Z6XBU4)			
	STEARIC ACID (UNII: 4ELV7Z65AP)			
Product Characteristics				
Color	WHITE	Score	4 pieces	
Shape	ROUND	Size	11mm	
Flavor		Imprint Code	ANI;470	
Contains				
Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:62559-470-01	100 in 1 BOTTLE; Type 0: Not a Combination Product	01/16/2024	
Marketing Information				
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date	
ANDA	ANDA040512	01/16/2024		

Labeler - ANI Pharmaceuticals, Inc. (145588013)

Revised: 1/2024

ANI Pharmaceuticals, Inc.