

## **BENZTROPINE MESYLATE- benztropine mesylate tablet** **ScieGen Pharmaceuticals Inc**

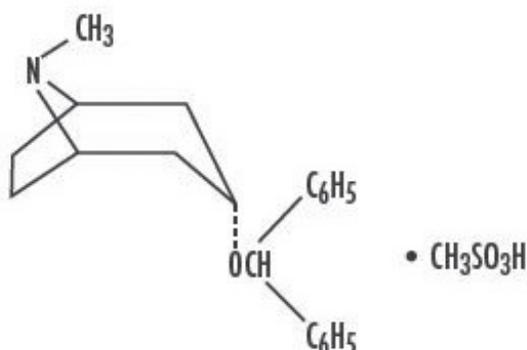
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### **BENZTROPINE MESYLATE Tablets, USP** **Rx Only**

#### **DESCRIPTION**

Benztropine mesylate is a synthetic compound containing structural features found in atropine and diphenhydramine.

It is designated chemically as 3 $\alpha$ -(Diphenylmethoxy)-1 $\alpha$ H, 5 $\alpha$ H-tropane methanesulfonate. Its molecular formula is C<sub>21</sub>H<sub>25</sub>NO•CH<sub>4</sub>O<sub>3</sub>S, and its structural formula is:



Benzotropine mesylate is a crystalline white powder, very soluble in water, and has a molecular weight of 403.54.

Each benztropine mesylate tablet USP for oral administration contains benztropine mesylate USP 0.5 mg, 1 mg or 2 mg.

Inactive ingredients: anhydrous lactose, croscarmellose sodium, FD&C Red #40 Aluminum Lake (2mg), FD&C Yellow #5 Aluminum Lake (1mg), povidone k-29/32, and magnesium stearate.

#### **CLINICAL PHARMACOLOGY**

Benzotropine mesylate possesses both anticholinergic and antihistaminic effects, although only the former have been established as therapeutically significant in the management of parkinsonism.

In the isolated guinea pig ileum, the anticholinergic activity of this drug is about equal to that of atropine; however, when administered orally to unanesthetized cats, it is only about half as active as atropine.

In laboratory animals, its antihistaminic activity and duration of action approach those of pyrilamine maleate.

#### **INDICATIONS AND USAGE**

Benztropine mesylate tablets are indicated for use as an adjunct in the therapy of all forms of parkinsonism.

Useful also in the control of extrapyramidal disorders (except tardive dyskinesia – see PRECAUTIONS) due to neuroleptic drugs (e.g., phenothiazines).

## **CONTRAINDICATIONS**

Hypersensitivity to benztropine mesylate tablets.

Because of its atropine-like side effects, this drug is contraindicated in pediatric patients under three years of age, and should be used with caution in older pediatric patients.

## **WARNINGS**

Safe use in pregnancy has not been established.

Benztropine mesylate may impair mental and/or physical abilities required for performance of hazardous tasks, such as operating machinery or driving a motor vehicle.

When benztropine mesylate is given concomitantly with phenothiazines, haloperidol, or other drugs with anticholinergic or antidopaminergic activity, patients should be advised to report gastrointestinal complaints, fever or heat intolerance promptly. Paralytic ileus, hyperthermia and heat stroke, all of which have sometimes been fatal, have occurred in patients taking anticholinergic-type antiparkinsonism drugs, including benztropine mesylate, in combination with phenothiazines and/or tricyclic antidepressants.

Since benztropine mesylate contains structural features of atropine, it may produce anhidrosis. For this reason, it should be administered with caution during hot weather, especially when given concomitantly with other atropine-like drugs to the chronically ill, the alcoholic, those who have central nervous system disease, and those who do manual labor in a hot environment. Anhidrosis may occur more readily when some disturbance of sweating already exists. If there is evidence of anhidrosis, the possibility of hyperthermia should be considered. Dosage should be decreased at the discretion of the physician so that the ability to maintain body heat equilibrium by perspiration is not impaired. Severe anhidrosis and fatal hyperthermia have occurred.

## **PRECAUTIONS**

### **General**

Since benztropine mesylate has cumulative action, continued supervision is advisable. Patients with a tendency to tachycardia and patients with prostatic hypertrophy should be observed closely during treatment.

Dysuria may occur, but rarely becomes a problem. Urinary retention has been reported with benztropine mesylate.

The drug may cause complaints of weakness and inability to move particular muscle groups, especially in large doses. For example, if the neck has been rigid and suddenly relaxes, it may feel weak, causing some concern. In this event, dosage adjustment is required.

Mental confusion and excitement may occur with large doses, or in susceptible patients. Visual hallucinations have been reported occasionally. Furthermore, in the treatment of extrapyramidal disorders due to neuroleptic drugs (e.g., phenothiazines), in patients

with mental disorders, occasionally there may be intensification of mental symptoms. In such cases, antiparkinsonian drugs can precipitate a toxic psychosis. Patients with mental disorders should be kept under careful observation, especially at the beginning of treatment or if dosage is increased.

Tardive dyskinesia may appear in some patients on long-term therapy with phenothiazines and related agents, or may occur after therapy with these drugs has been discontinued. Antiparkinsonism agents do not alleviate the symptoms of tardive dyskinesia, and in some instances may aggravate them. Benztropine mesylate is not recommended for use in patients with tardive dyskinesia.

The physician should be aware of the possible occurrence of glaucoma. Although the drug does not appear to have any adverse effect on simple glaucoma, it probably should not be used in angle-closure glaucoma.

## **Drug Interactions**

Antipsychotic drugs such as phenothiazines or haloperidol; tricyclic antidepressants (see WARNINGS).

## **Pediatric Use**

Because of the atropine-like side effects, benztropine mesylate should be used with caution in pediatric patients over three years of age (see CONTRAINDICATIONS).

## **ADVERSE REACTIONS**

The adverse reactions below, most of which are anticholinergic in nature, have been reported and within each category are listed in order of decreasing severity.

### *Cardiovascular*

Tachycardia.

### *Digestive*

Paralytic ileus, constipation, vomiting, nausea, dry mouth.

If dry mouth is so severe that there is difficulty in swallowing or speaking, or loss of appetite and weight, reduce dosage, or discontinue the drug temporarily.

Slight reduction in dosage may control nausea and still give sufficient relief of symptoms. Vomiting may be controlled by temporary discontinuation, followed by resumption at a lower dosage.

### *Nervous System*

Toxic psychosis, including confusion, disorientation, memory impairment, visual hallucinations; exacerbation of pre-existing psychotic symptoms; nervousness; depression; listlessness; numbness of fingers.

### *Special Senses*

Blurred vision, dilated pupils.

### *Urogenital*

Urinary retention, dysuria.

### *Metabolic/Immune or Skin*

Occasionally, an allergic reaction, e.g., skin rash, develops. If this cannot be controlled

by dosage reduction, the medication should be discontinued.

#### *Other*

Heat stroke, hyperthermia, fever.

### **OVERDOSAGE**

*Manifestations*- May be any of those seen in atropine poisoning or antihistamine overdose; CNS depression, preceded or followed by stimulation; confusion; nervousness; listlessness; intensification of mental symptoms or toxic psychosis in patients with mental illness being treated with neuroleptic drugs (e.g., phenothiazines); hallucinations (especially visual); dizziness; muscle weakness; ataxia; dry mouth; mydriasis; blurred vision; palpitations; tachycardia; elevated blood pressure; nausea; vomiting; dysuria; numbness of fingers; dysphagia; allergic reactions, e.g., skin rash; headache; hot, dry, flushed skin; delirium; coma; shock; convulsions; respiratory arrest; anhidrosis; hyperthermia; glaucoma; constipation.

*Treatment*- Physostigmine salicylate, 1 to 2 mg, SC or IV, reportedly will reverse symptoms of anticholinergic intoxication. \* A second injection may be given after 2 hours if required. Otherwise treatment is symptomatic and supportive. Induce emesis or perform gastric lavage (contraindicated in precomatose, convulsive, or psychotic states). Maintain respiration. A short-acting barbiturate may be used for CNS excitement, but with caution to avoid subsequent depression; supportive care for depression (avoid convulsant stimulants such as picrotoxin, pentylenetetrazol, or bemegride); artificial respiration for severe respiratory depression; a local miotic for mydriasis and cycloplegia; ice bags or other cold applications and alcohol sponges for hyperpyrexia, a vasopressor and fluids for circulatory collapse. Darken room for photophobia.

### **DOSAGE AND ADMINISTRATION**

Benztropine mesylate tablets should be used when patients are able to take oral medication.

Because of cumulative action, therapy should be initiated with a low dose which is increased gradually at five- or six-day intervals to the smallest amount necessary for optimal relief. Increases should be made in increments of 0.5 mg, to a maximum of 6 mg, or until optimal results are obtained without excessive adverse reactions.

**Postencephalitic and Idiopathic Parkinsonism** - The usual daily dose is 1 to 2 mg, with a range of 0.5 to 6 mg orally.

As with any agent used in parkinsonism, dosage must be individualized according to age and weight, and the type of parkinsonism being treated. Generally, older patients, and thin patients cannot tolerate large doses. Most patients with postencephalitic parkinsonism need fairly large doses and tolerate them well. Patients with a poor mental outlook are usually poor candidates for therapy.

In idiopathic parkinsonism, therapy may be initiated with a single daily dose of 0.5 to 1 mg at bedtime. In some patients, this will be adequate; in others 4 to 6 mg a day may be required.

In postencephalitic parkinsonism, therapy may be initiated in most patients with 2 mg a day in one or more doses. In highly sensitive patients, therapy may be initiated with 0.5

mg at bedtime, and increased as necessary.

Some patients experience greatest relief by taking the entire dose at bedtime; others react more favorably to divided doses, two to four times a day. Frequently, one dose a day is sufficient, and divided doses may be unnecessary or undesirable.

The long duration of action of this drug makes it particularly suitable for bedtime medication when its effects may last throughout the night, enabling patients to turn in bed during the night more easily, and to rise in the morning.

When benztropine mesylate is started, do not terminate therapy with other antiparkinsonian agents abruptly. If the other agents are to be reduced or discontinued, it must be done gradually. Many patients obtain greatest relief with combination therapy.

Benztropine mesylate may be used concomitantly with Carbidopa-Levodopa, or with levodopa, in which case periodic dosage adjustment may be required in order to maintain optimum response.

**Drug-Induced Extrapyrimal Disorders** - In treating extrapyramidal disorders due to neuroleptic drugs (e.g., phenothiazines), the recommended dosage is 1 to 4 mg once or twice a day orally. Dosage must be individualized according to the need of the patient. Some patients require more than recommended; others do not need as much.

When extrapyramidal disorders develop soon after initiation of treatment with neuroleptic drugs (e.g., phenothiazines), they are likely to be transient. One to 2 mg of benztropine mesylate tablets two or three times a day usually provides relief within one or two days. After one or two weeks, the drug should be withdrawn to determine the continued need for it. If such disorders recur, benztropine mesylate can be reinstated.

Certain drug-induced extrapyramidal disorders that develop slowly may not respond to benztropine mesylate.

## **HOW SUPPLIED**

Benztropine Mesylate Tablets, USP are available as follows:

0.5 mg: White, biconvex, round tablets, debossed with "337" on one side, and plain with a bisect on the other side, in bottles of 100 (NDC 50228- 225-01), and 1,000 (NDC 50228-225-10).

1 mg: Light yellow, round, biconvex tablets debossed with "338" on one side and plain with a bisect on the other side, in bottles of 100 (NDC 50228-226-01) and 1,000 (NDC 50228-226-10).

2 mg: Light red, round, biconvex tablets debossed with "339" on one side and plain with a bisect on the other side, in bottles of 100 (NDC 50228-227-01) and 1,000 (NDC 50228-227-10).

Dispense in well-closed containers as defined in the USP.

Store at 20° to 25°C (68° to 77°F); excursions permitted to 15° to 30°C (59° to 86°F) [see USP Controlled Room Temperature].

**Keep out of reach of children.**

**For more details please call 1-855-724-3436.**

Dispense the Prescribing Information at:

<https://sciegenpharm.com/medication-guide/>

\*Duvoisin, R.C.; Katz, R.J.; Amer. Med. Ass. 206: 1963–1965, Nov. 25, 1968.

**Manufactured by:**

A&Z Pharmaceutical, Inc.,  
180 Oser Ave. Suite 300  
Hauppauge, NY 11788

**Manufactured for:**

ScieGen Pharmaceuticals, Inc.  
Hauppauge, NY 11788

Revised: 12/2025

LB8080

**PRINCIPAL DISPLAY PANEL**

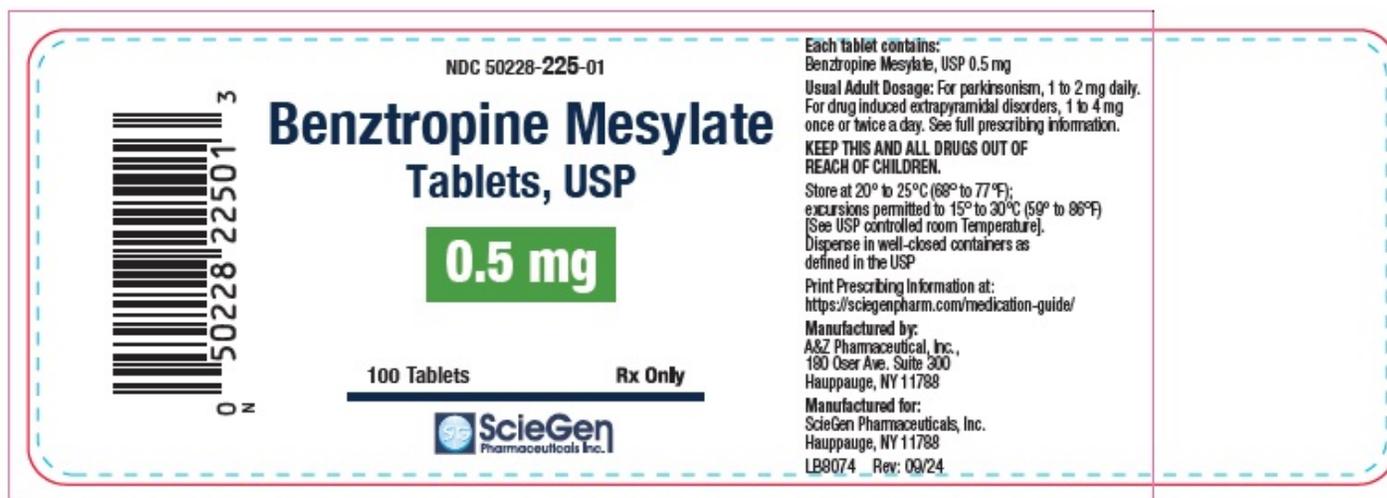
**NDC 50228-225-01**

**Benzotropine Mesylate  
Tablets, USP**

**0.5 mg**

**100 Tablets                      Rx Only**

**ScieGen  
Pharmaceuticals Inc.**



**PRINCIPAL DISPLAY PANEL**

**NDC 50228-225-10**

**Benzotropine Mesylate  
Tablets, USP**

**0.5 mg**

**1,000 Tablets                      Rx Only**

**ScieGen**

**Pharmaceuticals Inc.**

NDC 50228-225-10



N 0 50228 22510 5

# Benztropine Mesylate Tablets, USP

**0.5 mg**

**1,000 Tablets** **Rx Only**



**ScieGen**  
Pharmaceuticals Inc.

**Each tablet contains:**  
Benztropine Mesylate, USP 0.5 mg

**Usual Adult Dosage:** For parkinsonism, 1 to 2 mg daily. For drug induced extrapyramidal disorders, 1 to 4 mg once or twice a day. See full prescribing information.

**KEEP THIS AND ALL DRUGS OUT OF REACH OF CHILDREN.**

Store at 20° to 25°C (68° to 77°F); excursions permitted to 15° to 30°C (59° to 86°F) [See USP controlled room Temperature]. Dispense in well-closed containers as defined in the USP

Print Prescribing Information at:  
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A&Z Pharmaceutical, Inc.,  
180 Oser Ave. Suite 300  
Hauppauge, NY 11788

**Manufactured for:**  
ScieGen Pharmaceuticals, Inc.  
Hauppauge, NY 11788  
LB8075 Rev. 09/24

**PRINCIPAL DISPLAY PANEL**

**NDC 50228-226-01**

**Benztropine Mesylate  
Tablets, USP**

**1 mg**

**100 Tablets** **Rx Only**

**ScieGen  
Pharmaceuticals Inc.**

NDC 50228-226-01



N 0 50228 22601 0

# Benztropine Mesylate Tablets, USP

**1 mg**

**100 Tablets** **Rx Only**



**ScieGen**  
Pharmaceuticals Inc.

**Each tablet contains:**  
Benztropine Mesylate, USP 1 mg

**Usual Adult Dosage:** For parkinsonism, 1 to 2 mg daily. For drug induced extrapyramidal disorders, 1 to 4 mg once or twice a day. See full prescribing information.

**KEEP THIS AND ALL DRUGS OUT OF REACH OF CHILDREN.**

Store at 20° to 25°C (68° to 77°F); excursions permitted to 15° to 30°C (59° to 86°F) [See USP controlled room Temperature]. Dispense in well-closed containers as defined in the USP

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A&Z Pharmaceutical, Inc.,  
180 Oser Ave. Suite 300  
Hauppauge, NY 11788

**Manufactured for:**  
ScieGen Pharmaceuticals, Inc.  
Hauppauge, NY 11788  
LB9076 Rev. 09/24

**PRINCIPAL DISPLAY PANEL**

**NDC 50228-226-10**

**Benztropine Mesylate  
Tablets, USP**

**1 mg**

**1,000 Tablets                      Rx Only**

**ScieGen  
Pharmaceuticals Inc.**

**NDC 50228-226-10**

**Benzotropine Mesylate  
Tablets, USP**

**1 mg**

**1,000 Tablets                      Rx Only**

**ScieGen  
Pharmaceuticals Inc.**

**Each tablet contains:**  
Benzotropine Mesylate, USP 1 mg

**Usual Adult Dosage:** For parkinsonism, 1 to 2 mg daily. For drug induced extrapyramidal disorders, 1 to 4 mg once or twice a day. See full prescribing information.

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ScieGen Pharmaceuticals, Inc.  
Hauppauge, NY 11788  
LB8077 Rev. 09/24

**PRINCIPAL DISPLAY PANEL**

**NDC 50228-227-01**

**Benzotropine Mesylate  
Tablets, USP**

**2 mg**

**100 Tablets                      Rx Only**

**ScieGen  
Pharmaceuticals Inc.**

NDC 50228-227-01



0 N

# Benztropine Mesylate

## Tablets, USP

2 mg

100 Tablets Rx Only



**Each tablet contains:**  
Benztropine Mesylate, USP 2 mg

**Usual Adult Dosage:** For parkinsonism, 1 to 2 mg daily. For drug induced extrapyramidal disorders, 1 to 4 mg once or twice a day. See full prescribing information.

**KEEP THIS AND ALL DRUGS OUT OF REACH OF CHILDREN.**

Store at 20° to 25°C (68° to 77°F); excursions permitted to 15° to 30°C (59° to 86°F) [See USP controlled room Temperature]. Dispense in well-closed containers as defined in the USP

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180 Oser Ave. Suite 300  
Hauppauge, NY 11788

**Manufactured for:**  
ScieGen Pharmaceuticals, Inc.  
Hauppauge, NY 11788  
LB8078 Rev: 09/24

**PRINCIPAL DISPLAY PANEL**

**NDC 50228-227-10**

**Benztropine Mesylate  
Tablets, USP**

**2 mg**

**1,000 Tablets                      Rx Only**

**ScieGen  
Pharmaceuticals Inc.**

NDC 50228-227-10



N 0

# Benztropine Mesylate

## Tablets, USP

2 mg

1,000 Tablets Rx Only



**Each tablet contains:**  
Benztropine Mesylate, USP 2 mg

**Usual Adult Dosage:** For parkinsonism, 1 to 2 mg daily. For drug induced extrapyramidal disorders, 1 to 4 mg once or twice a day. See full prescribing information.

**KEEP THIS AND ALL DRUGS OUT OF REACH OF CHILDREN.**

Store at 20° to 25°C (68° to 77°F); excursions permitted to 15° to 30°C (59° to 86°F) [See USP controlled room Temperature]. Dispense in well-closed containers as defined in the USP

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A&Z Pharmaceutical, Inc.,  
180 Oser Ave. Suite 300  
Hauppauge, NY 11788

**Manufactured for:**  
ScieGen Pharmaceuticals, Inc.  
Hauppauge, NY 11788  
LB8079 Rev: 09/24

**BENZTROPINE MESYLATE**

benztropine mesylate tablet

**Product Information**

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:50228-225	
<b>Route of Administration</b>	ORAL			
<b>Active Ingredient/Active Moiety</b>				
<b>Ingredient Name</b>		<b>Basis of Strength</b>	<b>Strength</b>	
BENZTROPINE MESYLATE (UNII: WMJ8TL7510) (BENZTROPINE - UNII:1NHL2J4X8K)		BENZTROPINE MESYLATE	0.5 mg	
<b>Inactive Ingredients</b>				
<b>Ingredient Name</b>			<b>Strength</b>	
ANHYDROUS LACTOSE (UNII: 3SY5LH9PMK)				
CROSCARMELOSE SODIUM (UNII: M28OL1HH48)				
FD&C RED NO. 40 ALUMINUM LAKE (UNII: 6T47AS764T)				
FD&C YELLOW NO. 5 ALUMINUM LAKE (UNII: JQ6BLH9FR7)				
POVIDONE, UNSPECIFIED (UNII: FZ989GH94E)				
MAGNESIUM STEARATE (UNII: 70097M6I30)				
<b>Product Characteristics</b>				
<b>Color</b>	white	<b>Score</b>	2 pieces	
<b>Shape</b>	ROUND	<b>Size</b>	6mm	
<b>Flavor</b>		<b>Imprint Code</b>	337	
<b>Contains</b>				
<b>Packaging</b>				
<b>#</b>	<b>Item Code</b>	<b>Package Description</b>	<b>Marketing Start Date</b>	<b>Marketing End Date</b>
1	NDC:50228-225-01	100 in 1 BOTTLE; Type 0: Not a Combination Product	11/05/2024	
2	NDC:50228-225-10	1000 in 1 BOTTLE; Type 0: Not a Combination Product	11/05/2024	
<b>Marketing Information</b>				
<b>Marketing Category</b>	<b>Application Number or Monograph Citation</b>	<b>Marketing Start Date</b>	<b>Marketing End Date</b>	
ANDA	ANDA040103	11/05/2024		

## BENZTROPINE MESYLATE

benztropine mesylate tablet

<b>Product Information</b>			
<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:50228-226

Route of Administration ORAL

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
<b>BENZTROPINE MESYLATE</b> (UNII: WMJ8TL7510) (BENZTROPINE - UNII:1NHL2J4X8K)	BENZTROPINE MESYLATE	1 mg

### Inactive Ingredients

Ingredient Name	Strength
<b>ANHYDROUS LACTOSE</b> (UNII: 3SY5LH9PMK)	
<b>CROSCARMELLOSE SODIUM</b> (UNII: M28OL1HH48)	
<b>FD&amp;C RED NO. 40 ALUMINUM LAKE</b> (UNII: 6T47AS764T)	
<b>FD&amp;C YELLOW NO. 5 ALUMINUM LAKE</b> (UNII: JQ6BLH9FR7)	
<b>POVIDONE, UNSPECIFIED</b> (UNII: FZ989GH94E)	
<b>MAGNESIUM STEARATE</b> (UNII: 70097M6I30)	

### Product Characteristics

<b>Color</b>	yellow (Light)	<b>Score</b>	2 pieces
<b>Shape</b>	ROUND	<b>Size</b>	6mm
<b>Flavor</b>		<b>Imprint Code</b>	338
<b>Contains</b>			

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:50228-226-01	100 in 1 BOTTLE; Type 0: Not a Combination Product	11/05/2024	
2	NDC:50228-226-10	1000 in 1 BOTTLE; Type 0: Not a Combination Product	11/05/2024	

### Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA040103	11/05/2024	

## BENZTROPINE MESYLATE

benztropine mesylate tablet

### Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:50228-227
<b>Route of Administration</b>	ORAL		

**Active Ingredient/Active Moiety**

Ingredient Name	Basis of Strength	Strength
<b>BENZTROPINE MESYLATE</b> (UNII: WMJ8TL7510) (BENZTROPINE - UNII:1NHL2J4X8K)	BENZTROPINE MESYLATE	2 mg

**Inactive Ingredients**

Ingredient Name	Strength
<b>ANHYDROUS LACTOSE</b> (UNII: 3SY5LH9PMK)	
<b>CROSCARMELOSE SODIUM</b> (UNII: M28OL1HH48)	
<b>FD&amp;C RED NO. 40 ALUMINUM LAKE</b> (UNII: 6T47AS764T)	
<b>FD&amp;C YELLOW NO. 5 ALUMINUM LAKE</b> (UNII: JQ6BLH9FR7)	
<b>POVIDONE, UNSPECIFIED</b> (UNII: FZ989GH94E)	
<b>MAGNESIUM STEARATE</b> (UNII: 70097M6I30)	

**Product Characteristics**

<b>Color</b>	red (Light)	<b>Score</b>	2 pieces
<b>Shape</b>	ROUND	<b>Size</b>	6mm
<b>Flavor</b>		<b>Imprint Code</b>	339
<b>Contains</b>			

**Packaging**

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:50228-227-01	100 in 1 BOTTLE; Type 0: Not a Combination Product	11/05/2024	
2	NDC:50228-227-10	1000 in 1 BOTTLE; Type 0: Not a Combination Product	11/05/2024	

**Marketing Information**

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA040103	11/05/2024	

**Labeler** - ScieGen Pharmaceuticals Inc (079391286)**Establishment**

Name	Address	ID/FEI	Business Operations
A&Z Pharmaceutical, Inc.		080225262	manufacture(50228-225, 50228-226, 50228-227)