

## **MECLIZINE HYDROCHLORIDE- meclizine hydrochloride tablet DirectRx**

### **MECLIZINE HYDROCHLORIDE**

Meclizine hydrochloride is indicated for the treatment of vertigo associated with diseases affecting the vestibular system in adults.

#### 2.1 Recommended Dosage

The recommended dosage is 25 mg to 100 mg daily administered orally, in divided doses, depending upon clinical response.

#### 2.2 Administration Instructions

##### Tablets

Meclizine hydrochloride tablets must be swallowed whole.

##### Chewable Tablets

Meclizine hydrochloride chewable tablets must be chewed or crushed completely before swallowing. Do not swallow chewable tablets whole.

##### Tablets

12.5 mg: oval-shaped, biconvex, two-layered tablet, one blue to pale blue layer debossed with "34" and one white to off white layer debossed with "L".

25 mg: oval-shaped, biconvex, two-layered tablet, one yellow to pale yellow layer debossed with "49" and one white to off white layer debossed with "L".

50 mg: oval-shaped, biconvex, two-layered tablet, one blue to pale blue layer debossed with "50" and one yellow to pale yellow layer and debossed with "L".

##### Chewable Tablets

25 mg: pink colored round tablets debossed with "M 25" on one side and break line on other side.

Meclizine hydrochloride is contraindicated in patients with a hypersensitivity to meclizine or any of the inactive ingredients [see ADVERSE REACTIONS (6) and DESCRIPTION (11)].

#### 5.1 Drowsiness

Since drowsiness may occur with use of meclizine hydrochloride, patients should be warned of this possibility and cautioned against driving a car or operating dangerous machinery.

Patients should avoid alcoholic beverages while taking meclizine hydrochloride [see DRUG INTERACTIONS (7.1)].

#### 5.2 Concurrent Medical Conditions

Because of its potential anticholinergic action, meclizine hydrochloride should be used with caution in patients with asthma, glaucoma, or enlargement of the prostate gland.

The following adverse reactions associated with the use of meclizine hydrochloride were identified in clinical studies or postmarketing reports. Because some of these reactions were 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.

Anaphylactic reaction, drowsiness, dry mouth, headache, fatigue, and vomiting. On rare occasions blurred vision has been reported.

### 7.1 CNS Depressants

There may be increased CNS depression when meclizine hydrochloride is administered concurrently with other CNS depressants, including alcohol [see WARNINGS AND PRECAUTIONS (5.1)].

### 7.2 CYP2D6 Inhibitors

Based on in-vitro evaluation, meclizine is metabolized by CYP2D6. Therefore, there is a possibility for a drug interaction between meclizine hydrochloride and CYP2D6 inhibitors. Therefore, monitor for adverse reactions and clinical effect accordingly.

## 8.1 Pregnancy

### Risk Summary

Data from epidemiological studies have not generally indicated a drug-associated risk of major birth defects with meclizine during pregnancy. However, in a published study, an increased incidence of fetal malformations was observed following oral administration of meclizine to pregnant rats during the period of organogenesis, at doses similar to those used clinically.

In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2-4% and 15-20%, respectively. The background risk of major birth defects and miscarriage for the indicated population is unknown.

### Data

#### Human Data

Epidemiological studies reporting on pregnancies exposed to meclizine have not identified an association between the use of meclizine during pregnancy and an increased risk of major birth defects.

#### Animal Data

In a published study, oral administration of meclizine (25-250 mg/kg) to pregnant rats during the period of organogenesis resulted in a high incidence of fetal malformations. These effects occurred at doses as low as 25 mg/kg, which is approximately 2 times the maximum recommended human dose (100 mg) on a body surface area (mg/m<sup>2</sup>) basis.

## 8.2 Lactation

### Risk Summary

There are no data on the presence of meclizine in human milk, the effects on the breastfed infant, or the effects on milk production. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for meclizine hydrochloride and any potential adverse effects on the breastfed infant from meclizine hydrochloride or from the underlying maternal condition.

## 8.4 Pediatric Use

Safety and effectiveness in pediatric patients have not been established.

## 8.5 Geriatric Use

In general, dose selection for an elderly patient should be cautious, usually starting at the low end of the dosing range, reflecting the greater frequency of decreased hepatic,

renal, or cardiac function, and of concomitant disease or other drug therapy.

### 8.6 Hepatic Impairment

The effect of hepatic impairment on the pharmacokinetics of meclizine has not been evaluated. As meclizine hydrochloride undergoes metabolism, hepatic impairment may result in increased systemic exposure of meclizine. Treatment with meclizine hydrochloride should be administered with caution in patients with hepatic impairment.

### 8.7 Renal Impairment

The effect of renal impairment on the pharmacokinetics of meclizine has not been evaluated. Because of a potential for drug/metabolite accumulation, meclizine hydrochloride should be administered with caution in patients with renal impairment and in the elderly, as renal function generally declines with age.

### 8.8 Genetic CYP2D6 Polymorphism

The genetic polymorphism of CYP2D6 that results in poor-, intermediate-, extensive-, and ultrarapid metabolizer phenotypes could contribute to large inter-individual variability in meclizine exposure. Therefore, when meclizine hydrochloride is administered to patients with CYP2D6 polymorphism, monitor for adverse reactions and clinical effect accordingly.

Meclizine hydrochloride, a histamine (H<sub>1</sub>) receptor antagonist, is a white or slightly yellowish, crystalline powder. It has the following structural formula:

struct-1

Chemically, meclizine hydrochloride is 1-(p-chloro- $\alpha$ -phenylbenzyl)-4-(m-methylbenzyl) piperazine dihydrochloride monohydrate.

#### Tablets

Inactive ingredients for the tablets are: corn starch; dibasic calcium phosphate; magnesium stearate; polyethylene glycol; sucrose. The 12.5 mg tablets also contain: FD&C Blue # 1. The 25 mg tablets also contain: FD&C Yellow # 6 and D&C Yellow # 10. The 50 mg tablets also contain: FD&C Blue # 1, FD&C Yellow # 6 and D&C Yellow # 10.

Each meclizine hydrochloride 12.5 mg tablet contains 12.5 mg of meclizine dihydrochloride equivalent to 10.53 mg of meclizine free base.

Each meclizine hydrochloride 25 mg tablet contains 25 mg of meclizine dihydrochloride equivalent to 21.07 mg of meclizine free base.

Each meclizine hydrochloride 50 mg tablet contains 50 mg of meclizine dihydrochloride equivalent to 42.14 mg of meclizine free base.

#### Chewable Tablets

Inactive ingredients for the chewable tablets are: corn starch, colloidal silicon dioxide, FD&C Red # 40, lactose monohydrate, magnesium stearate, raspberry flavor, saccharin sodium, and talc.

Each meclizine hydrochloride 25 mg chewable tablet contains 25 mg of meclizine dihydrochloride equivalent to 21.07 mg of meclizine free base.

### 12.1 Mechanism of Action

The precise mechanism by which meclizine exerts its therapeutic effect is unknown but is presumed to involve antagonism of the histamine H<sub>1</sub> receptor.

### 12.2 Pharmacodynamics

There are no relevant pharmacodynamic data regarding meclizine.

### 12.3 Pharmacokinetics

The available pharmacokinetic information for meclizine following oral administration has been summarized from published literature.

#### Absorption

Meclizine is absorbed after oral administration with maximum plasma concentrations reaching at a median Tmax value of 3 hours post-dose (range: 1.5 to 6 hours) for the tablet dosage form.

#### Distribution

Drug distribution characteristics for meclizine in humans are unknown.

#### Elimination

Meclizine has a plasma elimination half-life of about 5-6 hours in humans.

#### Metabolism

In an in vitro metabolic study using human hepatic microsome and recombinant CYP enzyme, CYP2D6 was found to be the dominant enzyme for metabolism of meclizine.

### 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

#### Carcinogenesis

Animal studies to assess the carcinogenic potential of meclizine have not been conducted.

#### Mutagenesis

Genetic toxicology studies of meclizine have not been conducted.

#### Impairment of Fertility

Animal studies to assess the effects of meclizine on fertility and early embryonic development have not been conducted.

### 16.1 How Supplied

#### Tablets

Meclizine hydrochloride 12.5 mg tablets are oval shaped, biconvex, two-layered tablet, one blue to pale blue layer debossed with "34" and one white to off white layer debossed with "L".

Bottles of 100

Bottles of 500

Meclizine hydrochloride 25 mg tablets are oval shaped, biconvex, two-layered tablet, one yellow to pale yellow layer debossed with "49" and one white to off white layer debossed with "L".

Bottles of 100

Bottles of 1000

Meclizine hydrochloride 50 mg tablets are oval shaped, biconvex, two-layered tablet, one blue to pale blue layer debossed with "50" and one yellow to pale yellow layer and debossed with "L".

Bottles of 100

#### Chewable Tablets

Meclizine hydrochloride 25 mg chewable tablets are pink colored round tablets debossed with "M 25" on one side and break line on other side.

Bottles of 100



Caution: Federal law prohibits transfer of this drug to any person other than the patient for whom it was prescribed. Dosage: See package insert. Store between 68-77 degrees F. For XLT, UNCL. Keep out of reach of children.

NDC 72189-302-60

**Meclizine HCL**

**12.5 mg**      **60 Tabs**

Generic For: **Antivert**  
 Each tablet contains: 12.5 mg meclizine dihydrochloride equivalent to 10.53 mg of meclizine free base.

Lot# 25MA2209  
 Prod# 4238-125-60  
 Packaged and Distributed By: **DIRECT**

Discard After: 6/30/23  
 72189-302-60  
 25MA2209 Dawsonville, GA 30534  
 6/30/23  
 BKKVS

Dist. By Rating Pharmaceuticals, Inc.  
 4500 N. Highway 101  
 Suite 100  
 Jacksonville, FL 32217  
 Mfg. Lot: YJ542101GA  
 N3 3/29/2022 1655234  
 NDC 16571-660-01

Meclizine HCL 12.5 mg  
 NDC 72189-302-60 60 Tabs  
 Lot 25MA2209 Exp 6/30/23  
 Mfg NDC 16571-660-01

Meclizine HCL 12.5 mg  
 NDC 72189-302-60 60 Tabs  
 Lot 25MA2209 Exp 6/30/23  
 Mfg NDC 16571-660-01

Meclizine HCL 12.5 mg  
 NDC 72189-302-60 60 Tabs  
 Lot 25MA2209 Exp 6/30/23  
 Mfg NDC 16571-660-01

Meclizine HCL 12.5 mg  
 NDC 72189-302-60 60 Tabs  
 Lot 25MA2209 Exp 6/30/23  
 Mfg NDC 16571-660-01

## MECLIZINE HYDROCHLORIDE

meclizine hydrochloride tablet

### Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:72189-302(NDC:16571-660)
<b>Route of Administration</b>	ORAL		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
<b>MECLIZINE HYDROCHLORIDE</b> (UNII: HDP7W44CIO) (MECLIZINE - UNII:3L5TQ84570)	MECLIZINE HYDROCHLORIDE	12.5 mg

### Inactive Ingredients

Ingredient Name	Strength
<b>CALCIUM PHOSPHATE, DIBASIC, ANHYDROUS</b> (UNII: L11K75P92J)	
<b>SUCROSE</b> (UNII: C151H8M554)	
<b>WATER</b> (UNII: 059QF0KO0R)	
<b>POLYETHYLENE GLYCOL, UNSPECIFIED</b> (UNII: 3WJQ0SDW1A)	
<b>MAGNESIUM STEARATE</b> (UNII: 70097M6I30)	
<b>FD&amp;C BLUE NO. 1</b> (UNII: H3R47K3TBD)	
<b>ALCOHOL</b> (UNII: 3K9958V90M)	
<b>STARCH, CORN</b> (UNII: O8232NY3SJ)	

### Product Characteristics

<b>Color</b>	blue ((Pale Blue to White))	<b>Score</b>	no score
<b>Shape</b>	OVAL ((Biconvex, two layered tablet))	<b>Size</b>	10mm
<b>Flavor</b>		<b>Imprint Code</b>	34;L
<b>Contains</b>			

### Packaging

Marketing Start      Marketing End

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:72189-302-30	30 in 1 BOTTLE; Type 0: Not a Combination Product	12/06/2021	
2	NDC:72189-302-60	60 in 1 BOTTLE; Type 0: Not a Combination Product	12/06/2021	

### Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA authorized generic	NDA010721	12/06/2021	

**Labeler** - DirectRx (079254320)

**Registrant** - DirectRx (079254320)

### Establishment

Name	Address	ID/FEI	Business Operations
DirectRx		079254320	repack(72189-302)

Revised: 1/2025

DirectRx