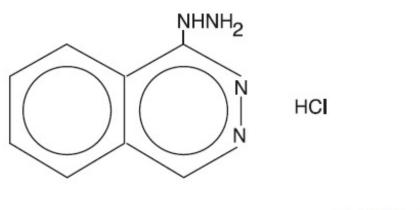
HYDRALAZINE HYDROCHLORIDE- hydralazine hydrochloride tablet, film coated Heritage Pharmaceuticals Inc. d/b/a Avet Pharmaceuticals Inc.

Rx only

DESCRIPTION

HydrALAZINE hydrochloride, USP, is an antihypertensive, for oral administration. Its chemical name is 1-hydrazinophthalazine monohydrochloride, and its structural formula is:



 $C_8H_8N_4 \bullet HCI$

HydrALAZINE hydrochloride, USP is a white to off-white, odorless crystalline powder. It is soluble in water, slightly soluble in alcohol, and very slightly soluble in ether. It melts at about 275°C, with decomposition, and has a molecular weight of 196.64.

Each tablet for oral administration contains 10 mg, 25 mg, 50 mg, or 100 mg hydrALAZINE hydrochloride, USP. Tablets also contain FD&C Red #40/Allura Red AC Aluminum Lake, hypromellose, lactose anhydrous, light mineral oil, microcrystalline cellulose, magnesium stearate, pregelatinized starch, sodium lauryl sulfate, and titanium dioxide.

CLINICAL PHARMACOLOGY

Although the precise mechanism of action of hydrALAZINE is not fully understood, the major effects are on the cardiovascular system. HydrALAZINE apparently lowers blood pressure by exerting a peripheral vasodilating effect through a direct relaxation of vascular smooth muscle. HydrALAZINE, by altering cellular calcium metabolism, interferes with the calcium movements within the vascular smooth muscle that are responsible for initiating or maintaining the contractile state.

The peripheral vasodilating effect of hydrALAZINE results in decreased arterial blood pressure (diastolic more than systolic); decreased peripheral vascular resistance; and an increased heart rate, stroke volume, and cardiac output. The preferential dilatation of arterioles, as compared to veins, minimizes postural hypotension and promotes the increase in cardiac output. HydrALAZINE usually increases renin activity in plasma, presumably as a result of increased secretion of renin by the renal juxtaglomerular cells in response to reflex sympathetic discharge. This increase in renin activity leads to the production of angiotensin II, which then causes stimulation of aldosterone and consequent sodium reabsorption. HydrALAZINE also maintains or increases renal and cerebral blood flow.

HydrALAZINE is rapidly absorbed after oral administration, and peak plasma levels are reached at 1 to 2 hours. Plasma levels of apparent hydrALAZINE decline with a half-life of 3 to 7 hours. Binding to

human plasma protein is 87%. Plasma levels of hydrALAZINE vary widely among individuals. HydrALAZINE is subject to polymorphic acetylation; slow acetylators generally have higher plasma levels of hydrALAZINE and require lower doses to maintain control of blood pressure. HydrALAZINE undergoes extensive hepatic metabolism; it is excreted mainly in the form of metabolites in the urine.

INDICATIONS AND USAGE

Essential hypertension, alone or as an adjunct.

CONTRAINDICATIONS

Hypersensitivity to hydrALAZINE; coronary artery disease; mitral valvular rheumatic heart disease.

WARNINGS

In a few patients hydrALAZINE may produce a clinical picture simulating systemic lupus erythematosus including glomerulonephritis. In such patients hydrALAZINE should be discontinued unless the benefitto-risk determination requires continued antihypertensive therapy with this drug.Symptoms and signs usually regress when the drug is discontinued but residua have been detected many years later. Longterm treatment with steroids may be necessary. (See **PRECAUTIONS, Laboratory Tests**.)

PRECAUTIONS

General

Myocardial stimulation produced by hydrALAZINE can cause anginal attacks and ECG changes of myocardial ischemia. The drug has been implicated in the production of myocardial infarction. It must, therefore, be used with caution in patients with suspected coronary artery disease.

The "hyperdynamic" circulation caused by hydrALAZINE may accentuate specific cardiovascular inadequacies. For example, hydrALAZINE may increase pulmonary artery pressure in patients with mitral valvular disease. The drug may reduce the pressor responses to epinephrine. Postural hypotension may result from hydrALAZINE but is less common than with ganglionic blocking agents. It should be used with caution in patients with cerebral vascular accidents.

In hypertensive patients with normal kidneys who are treated with hydrALAZINE, there is evidence of increased renal blood flow and a maintenance of glomerular filtration rate. In some instances where control values were below normal, improved renal function has been noted after administration of hydrALAZINE. However, as with any antihypertensive agent, hydrALAZINE should be used with caution in patients with advanced renal damage.

Peripheral neuritis, evidenced by paresthesia, numbness, and tingling, has been observed. Published evidence suggests an antipyridoxine effect, and that pyridoxine should be added to the regimen if symptoms develop.

Information for Patients

Patients should be informed of possible side effects and advised to take the medication regularly and continuously as directed.

Laboratory Tests

Complete blood counts and antinuclear antibody titer determinations are indicated before and periodically during prolonged therapy with hydrALAZINE even though the patient is asymptomatic. These studies are also indicated if the patient develops arthralgia, fever, chest pain, continued malaise, or other unexplained signs or symptoms.

A positive antinuclear antibody titer requires that the physician carefully weigh the implications of the test results against the benefits to be derived from antihypertensive therapy with hydrALAZINE.

Blood dyscrasias, consisting of reduction in hemoglobin and red cell count, leukopenia, agranulocytosis, and purpura, have been reported. If such abnormalities develop, therapy should be discontinued.

Drug /Drug Interactions

MAO inhibitors should be used with caution in patients receiving hydrALAZINE.

When other potent parenteral antihypertensive drugs, such as diazoxide, are used in combination with hydrALAZINE, patients should be continuously observed for several hours for any excessive fall in blood pressure. Profound hypotensive episodes may occur when diazoxide injection and hydrALAZINE are used concomitantly.

Drug/Food Interactions

Administration of hydrALAZINE with food results in higher plasma levels.

Carcinogenesis, Mutagenesis, Impairment of Fertility

In a lifetime study in Swiss albino mice, there was a statistically significant increase in the incidence of lung tumors (adenomas and adenocarcinomas) of both male and female mice given hydrALAZINE continuously in their drinking water at a dosage of about 250 mg/kg per day (about 80 times the maximum recommended human dose). In a 2-year carcinogenicity study of rats given hydrALAZINE by gavage at dose levels of 15, 30, and 60 mg/kg/day (approximately 5 to 20 times the recommended human daily dosage), microscopic examination of the liver revealed a small, but statistically significant, increase in benign neoplastic nodules in male and female rats from the high-dose group and in female rats from the intermediate-dose group. Benign interstitial cell tumors of the testes were also significantly increased in male rats from the high-dose group. The tumors observed are common in aged rats and a significantly increased incidence was not observed until 18 months of treatment. HydrALAZINE was shown to be mutagenic in bacterial systems (Gene Mutation and DNA Repair) and in one of two rats and one rabbit hepatocyte in vitro DNA repair studies. Additional in vivo and in vitro studies using lymphoma cells, germinal cells, and fibroblasts from mice, bone marrow cells from Chinese hamsters and fibroblasts from human cell lines did not demonstrate any mutagenic potential for hydrALAZINE.

The extent to which these findings indicate a risk to man is uncertain. While long-term clinical observation has not suggested that human cancer is associated with hydrALAZINE use, epidemiologic studies have so far been insufficient to arrive at any conclusions.

Pregnancy Category C

Animal studies indicate that hydrALAZINE is teratogenic in mice at 20 to 30 times the maximum daily human dose of 200 to 300 mg and possibly in rabbits at 10 to15 times the maximum daily human dose, but that it is nonteratogenic in rats. Teratogenic effects observed were cleft palate and malformations of facial and cranial bones.

There are no adequate and well-controlled studies in pregnant women. Although clinical experience does not include any positive evidence of adverse effects on the human fetus, hydrALAZINE should be used during pregnancy only if the expected benefit justifies the potential risk to the fetus.

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 hydrALAZINE is administered to a nursing woman.

Pediatric Use

Safety and effectiveness in pediatric patients have not been established in controlled clinical trials, although there is experience with the use of hydrALAZINE in pediatric patients. The usual

recommended oral starting dosage is 0.75 mg/kg of body weight daily in four divided doses. Dosage may be increased gradually over the next 3 to 4 weeks to a maximum of 7.5 mg/kg or 200 mg daily.

ADVERSE REACTIONS

Adverse reactions with hydrALAZINE are usually reversible when dosage is reduced. However, in some cases it may be necessary to discontinue the drug. The following adverse reactions have been observed, but there has not been enough systematic collection of data to support an estimate of their frequency.

Common: Headache, anorexia, nausea, vomiting, diarrhea, palpitations, tachycardia, angina pectoris.

Less Frequent: Digestive: constipation, paralytic ileus.

Cardiovascular: hypotension, paradoxical pressor response, edema.

Respiratory: dyspnea.

Neurologic: peripheral neuritis, evidenced by paresthesia, numbness, and tingling; dizziness; tremors; muscle cramps; psychotic reactions characterized by depression, disorientation, or anxiety.

Genitourinary: difficulty in urination.

Hematologic: blood dyscrasias, consisting of reduction in hemoglobin and red cell count, leukopenia, agranulocytosis, purpura; lymphadenopathy; splenomegaly.

Hypersensitive Reactions:rash, urticaria, pruritus, fever, chills, arthralgia, eosinophilia, and rarely, hepatitis.

Other: nasal congestion, flushing, lacrimation, conjunctivitis.

OVERDOSAGE

Acute Toxicity: No deaths due to acute poisoning have been reported. Highest known dose survived: adults, 10 g orally.

Oral LD_{50} in rats: 173 and 187 mg/kg.

Signs and Symptoms: Signs and symptoms of overdosage include hypotension, tachycardia, headache, and generalized skin flushing.

Complications can include myocardial ischemia and subsequent myocardial infarction, cardiac arrhythmia, and profound shock.

Treatment: There is no specific antidote.

The gastric contents should be evacuated, taking adequate precautions against aspiration and for protection of the airway. An activated charcoal slurry may be instilled if conditions permit. These manipulations may have to be omitted or carried out after cardiovascular status has been stabilized, since they might precipitate cardiac arrhythmias or increase the depth of shock.

Support of the cardiovascular system is of primary importance. Shock should be treated with plasma expanders. If possible, vasopressors should not be given, but if a vasopressor is required, care should be taken not to precipitate or aggravate cardiac arrhythmia.

Tachycardia responds to beta blockers. Digitalization may be necessary, and renal function should be monitored and supported as required.

No experience has been reported with extracorporeal or peritoneal dialysis.

DOSAGE AND ADMINISTRATION

Initiate therapy in gradually increasing dosages; adjust according to individual response. Start with 10 mg four times daily for the first 2 to 4 days, increase to 25 mg four times daily for the balance of the

first week. For the second and subsequent weeks, increase dosage to 50 mg four times daily. For maintenance, adjust dosage to the lowest effective levels.

The incidence of toxic reactions, particularly the L.E. cell syndrome, is high in the group of patients receiving large doses of hydrALAZINE.

In a few resistant patients, up to 300 mg of hydrALAZINE daily may be required for a significant antihypertensive effect. In such cases, a lower dosage of hydrALAZINE combined with a thiazide and/or reserpine or a beta blocker may be considered. However, when combining therapy, individual titration is essential to ensure the lowest possible therapeutic dose of each drug.

HOW SUPPLIED

HydrALAZINE Hydrochloride Tablets, USP

10 mg - round, convex, pink film coated tablet engraved with HP above 1 on one side and plain on the other side

NDC 23155-001-01 Bottles of 100 w/ CRC

NDC 23155-001-10 Bottles of 1000

25 mg - round, convex, pink film coated tablet engraved with HP above 2 on one side and plain on the other side

NDC 23155-002-01 Bottles of 100 w/ CRC

NDC 23155-002-10 Bottles of 1000

50 mg - round, convex, pink film coated tablet engraved with HP above 3 on one side and plain on the other side

NDC 23155-003-01 Bottles of 100 w/ CRC

NDC 23155-003-10 Bottles of 1000

100 mg - round, convex, pink film coated tablet engraved with HP above 4 on one side and plain on the other side

NDC 23155-004-01 Bottles of 100 w/ CRC

NDC 23155-004-10 Bottles of 1000

Dispense in a tight, light-resistant container as defined in the USP.

Store at 20° to 25°C (68° to 77°F) [See USP Controlled Room Temperature].

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

Distributed by:

Avet Pharmaceuticals Inc.

East Brunswick, NJ 08816

1-866-901-DRUG (3784)

51U000000172US04

Revised: 02/2020

PACKAGE LABEL.PRINCIPAL DISPLAY PANEL

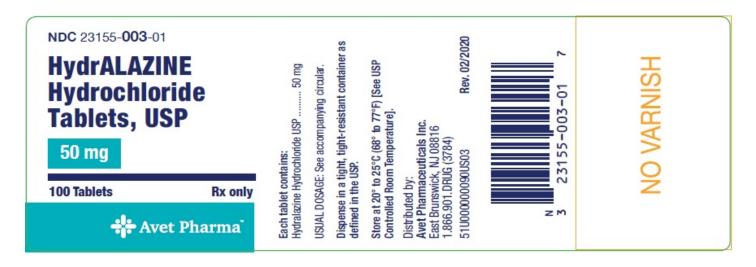
Hydralazine Hydrochloride Tablets, USP, 10 mg, 100 count



Hydralazine Hydrochloride Tablets, USP, 25 mg, 100 count



Hydralazine Hydrochloride Tablets, USP, 50 mg, 100 count



Hydralazine Hydrochloride Tablets, USP, 100 mg, 100 count



HYDRALAZINE HY	DROCHLORII	DE					
hydralazine hydrochloride ta	blet, film coated						
Product Information							
Product Type	HUMAN PRESCRIPTION DRUG Item Code (Source) NDC:23155-001						
Route of Administration							
Active Ingredient/Active	e Moiety						
	Ingredient Name			Basis of Stre	ngth	Strength	
HYDRALAZINE HYDRO CHLO UNII:26 NAK24LS8)	RIDE (UNII: FD171B778)	Y) (HYDRALAZINE -		HYDRALAZINE HYDROCHLORIDE		10 mg	
Inactive Ingredients							
Ingredient Name Streng							
ANHYDROUS LACTOSE (UNII: 3SY5LH9PMK)							
CELLULOSE, MICROCRYSTALLINE (UNII: OP1R32D61U)							
STARCH, CORN (UNII: 08232N	IY3SJ)						
MAGNESIUM STEARATE (UNI	I: 70097M6I30)						
MINERAL OIL (UNII: T5L8T28	FGP)						
TITANIUM DIO XIDE (UNII: 15F	IX9V2JP)						
SODIUM LAURYL SULFATE (UNII: 368GB5141J)						
FD&C RED NO.40 (UNII: WZB	9127XOA)						
HYPROMELLOSE, UNSPECIF	IED (UNII: 3NXW29V3W	0)					
Product Characteristics							
Color	PINK	K Score no score					
Shape	ROUND	Size		7mm	n		
Flavor		Imprint Code HP;1					
Contains							

Packaging							
# Item Code	Package Description	Marketing Start Date	Marketing End Date				
1 NDC:23155-001-0	100 in 1 BOTTLE; Type 0: Not a Combination Product	04/06/2007					
2 NDC:23155-001-10	1000 in 1 BOTTLE; Type 0: Not a Combination Product	04/06/2007					
Marketing Information							
Marketing Catego	ry Application Number or Monograph Citation	Marketing Start Date	Marketing End Date				
ANDA	ANDA086242	04/06/2007					

HYDRALAZINE HYDROCHLORIDE nydralazine hydrochloride tablet, film coated								
Product Informa	tion							
Product T ype	HUMAN PRESCRIPTION DRUG Item Code (Source) NDC:23155-002							55-002
Route of Administra	Route of Administration ORAL							
Active Ingredien	t/Active Moi	ety						
	Ingr	edient Name			Basis of S	Streng	gth	Strength
HYDRALAZINE HYDF UNII:26 NAK24LS8)	ROCHLORIDE (JNII: FD171B778Y)	(HYDRALAZINE -		HYDRALAZINE HYDROCHLORII	DE		25 mg
Inactive Ingredie	ents							
		Ingredien	t Name				Str	ength
ANHYDRO US LACTO	SE (UNII: 3SY5L	H9 PMK)						
CELLULOSE, MICRO	CELLULOSE, MICROCRYSTALLINE (UNII: OP1R32D61U)							
STARCH, CORN (UNI	I: O8232NY3SJ)							
MAGNESIUM STEAR	ATE (UNII: 7009)	7M6I30)						
MINERAL OIL (UNII:	T5L8T28FGP)							
TITANIUM DIO XIDE	(UNII: 15FIX9V2J	P)						
SODIUM LAURYL SU	LFATE (UNII: 36	8GB5141J)						
FD&C RED NO. 40 (U								
HYPROMELLOSE, U	NSPECIFIED (UN	NII: 3NXW29V3WO)					
Product Character	eristics							
Color PINK Score no score								
Shape	ROUN	ROUND Size 8mm						
Flavor	Imprint Code HP;2							
Contains								
Packaging								
# Item Code		Package Descri	ption	Marke	ting Start Date	e Ma	rketing	End Date

1 NDC:23155-002-10	1000 in 1 DOT	TTI E. Tune O. Nata (Combination Draduct	04/06/202	0.7			
2 NDC ·23155_002_01				04/06/20				
2 1100.23133-002-01	100 in 1 BOTTLE; Type 0: Not a Combination Product							
Marketing Info	ormation	l						
Marketing Category	Applica	tion Number or Mo	onograph Citation	Market	ing Start Date	Marketin	g End Date	
ANDA	ANDA0862	242		04/06/2007				
			F					
HYDRALAZIN			E					
hydralazine hydrochlo	oride tablet,	film coated						
Product Informat	ion							
Product Type		HUMAN PRESCR	IPTION DRUG	Ite m Co	de (Source)	NDC:23	155-003	
Route of Administrat	tion	ORAL						
Active Ingredient							-	
		gredient Name		-	Basis of St	rength	Streng	
HYDRALAZINE HYDRO UNII:26 NAK24LS8)	OCHLORIDE	E (UNII: FD171B778Y)) (HYDRALAZINE -		IYDRALAZINE IYDROCHLORIDE	1	50 mg	
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Inactive Ingredie	nts	Inquedien	t Nome			64	wongth	
U U		Ingredien	t Name			St	rength	
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ANHYDRO US LACTOS CELLULO SE, MICRO (STARCH, CORN (UNII: MAGNESIUM STEARA	SE (UNII: 3SY C RYSTALLI O8232NY3SJ TE (UNII: 700	5LH9PMK) NE (UNII: OP1R32D61)				St	rength	
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N	Iarketing Inf	ormation								
N	larketing Categor	ory Application Number or Monograph Citation Marketing Start Date M					Marketi	ng End Date		
Al	NDA	ANDA086242					04/06/2007			
H	YDRALAZIN	E HYDRC	CHLORIDE	3						
hy	dralazine hydroch	loride tablet, f	lm coated							
Р	roduct Informa	tion								
	roduct Type		HUMAN PRESCRIE	PTION DRUG	Ite m C	23155-004				
R	oute of Administra	tion	ORAL							
A	ctive Ingredien	t/Active Moi	ety							
		Ingr	edient Name			Basis of S	Strength	Strength		
	Y DRALAZINE HYDF NII:26 NAK24LS8)	RO CHLO RIDE (1	JNII: FD171B778Y)	(HYDRALAZINE -		HYDRALAZINE HYDROCHLORIE	DE	100 mg		
Ir	active Ingredie	nts								
			Ingredient	Name			5	Strength		
A	NHYDRO US LACTO	SE (UNII: 3SY5L	-							
C	ELLULOSE, MICRO	CRYSTALLINE	(UNII: OP1R32D610	J)						
SI	TARCH, CORN (UNI	I: O8232NY3SJ)								
	AGNESIUM STEAR		7M6I30)							
	INERAL OIL (UNII: "		,							
	TANIUM DIO XIDE (P)							
	DDIUM LAURYL SU	•	,							
)&C RED NO.40 (U		,							
	YPROMELLOSE, U									
Р	roduct Characte	eristics								
С	olor	PINK		Score			no score			
SI	Shape ROUND Size 11mm				11mm					
Fl	Flavor Imprint Code HP;4					HP;4				
С	ontains									
Р	ackaging									
#	Item Code		Package Descrip	otion	Marke	ting Start Date	e Marketi	ng End Date		
1	NDC:23155-004-01				04/06/2	-		5		
	NDC:23155-004-10			ombination Product	04/06/2	007				

Marketing Information						
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date			
ANDA	ANDA086242	04/06/2007				

Labeler - Heritage Pharmaceuticals Inc. d/b/a Avet Pharmaceuticals Inc. (780779901)

Establishment

Name	Address	ID/FEI	Business Operations
Sumitomo Chemical Company Ltd.		711530311	API MANUFACTURE(23155-001, 23155-002, 23155-003, 23155-004)

Establishment

Name	Address	ID/FEI	Business Operations
Heritage Pharma Labs Inc. d/b/a Avet Pharmaceuticals Labs Inc.			ANALYSIS(23155-001, 23155-002, 23155-003, 23155-004), LABEL(23155-001, 23155-002, 23155-003, 23155-004), MANUFACTURE(23155-001, 23155-002, 23155-003, 23155-004), PACK(23155-001, 23155-002, 23155-003, 23155-004)

Revised: 4/2020

Heritage Pharmaceuticals Inc. d/b/a Avet Pharmaceuticals Inc.