DIPYRIDAMOLE- dipyridamole tablet, film coated Lannett Company, Inc.

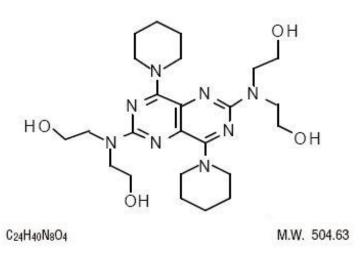
DIPYRIDAMOLE TABLETS, USP 25 mg, 50 mg, and 75 mg

Rx only

Prescribing Information

DESCRIPTION

Dipyridamole, USP is a platelet inhibitor chemically described as 2,2',2",2"'-[(4,8-Dipiperidinopyrimido[5,4-*d*]pyrimidine-2,6-diyl)dinitrilo]-tetraethanol. It has the following structural formula:



Dipyridamole is an odorless yellow crystalline powder, having a bitter taste. It is soluble in dilute acids, methanol and chloroform, and practically insoluble in water.

Dipyridamole Tablets USP, 25 mg, 50 mg and 75 mg for oral administration contain 25 mg, 50 mg, and 75 mg of dipyridamole, USP, respectively.

Inactive ingredients for Dipyridamole Tablets USP, 25 mg, 50 mg, and 75 mg: microcrystalline cellulose, povidone, crospovidone, lactose monohydrate, colloidal silicon dioxide, magnesium stearate, FD&C Red # 40 aluminum lake, FD&C Yellow #6 aluminum lake, lecithin, polyethylene glycol, polyvinyl alcohol, talc, and titanium dioxide.

CLINICAL PHARMACOLOGY

It is believed that platelet reactivity and interaction with prosthetic cardiac valve surfaces, resulting in abnormally shortened platelet survival time, is a significant factor in thromboembolic complications occurring in connection with prosthetic heart valve replacement.

Dipyridamole tablets have been found to lengthen abnormally shortened platelet survival time in a dosedependent manner.

In three randomized controlled clinical trials involving 854 patients who had undergone surgical placement of a prosthetic heart valve, dipyridamole tablets, in combination with warfarin, decreased the

incidence of postoperative thromboembolic events by 62 to 91% compared to warfarin treatment alone. The incidence of thromboembolic events in patients receiving the combination of dipyridamole tablets and warfarin ranged from 1.2 to 1.8%. In three additional studies involving 392 patients taking dipyridamole tablets and coumarin-like anticoagulants, the incidence of thromboembolic events ranged from 2.3 to 6.9%.

In these trials, the coumarin anticoagulant was begun between 24 hours and 4 days postoperatively, and the dipyridamole tablets were begun between 24 hours and 10 days postoperatively. The length of follow-up in these trials varied from 1 to 2 years.

Dipyridamole tablets do not influence prothrombin time or activity measurements when administered with warfarin.

Mechanism of Action

Dipyridamole inhibits the uptake of adenosine into platelets, endothelial cells and erythrocytes *in vitro* and *in vivo*; the inhibition occurs in a dose-dependent manner at therapeutic concentrations (0.5 to 1.9 mcg/mL). This inhibition results in an increase in local concentrations of adenosine which acts on the platelet A₂-receptor thereby stimulating platelet adenylate cyclase and increasing platelet cyclic-3',5'- adenosine monophosphate (cAMP) levels. Via this mechanism, platelet aggregation is inhibited in response to various stimuli such as platelet activating factor (PAF), collagen and adenosine diphosphate (ADP).

Dipyridamole inhibits phosphodiesterase (PDE) in various tissues. While the inhibition of cAMP-PDE is weak, therapeutic levels of dipyridamole inhibit cyclic-3',5'-guanosine monophosphate-PDE (cGMP-PDE), thereby augmenting the increase in cGMP produced by EDRF (endothelium-derived relaxing factor, now identified as nitric oxide).

Hemodynamics

In dogs, intraduodenal doses of dipyridamole of 0.5 to 4.0 mg/kg produced dose-related decreases in systemic and coronary vascular resistance leading to decreases in systemic blood pressure and increases in coronary blood flow. Onset of action was in about 24 minutes and effects persisted for about 3 hours.

Similar effects were observed following IV dipyridamole in doses ranging from 0.025 to 2.0 mg/kg.

In man the same qualitative hemodynamic effects have been observed. However, acute intravenous administration of dipyridamole may worsen regional myocardial perfusion distal to partial occlusion of coronary arteries.

Pharmacokinetics and Metabolism

Following an oral dose of dipyridamole tablets, the average time to peak concentration is about 75 minutes. The decline in plasma concentration following a dose of dipyridamole tablets fits a two-compartment model. The alpha half-life (the initial decline following peak concentration) is approximately 40 minutes. The beta half-life (the terminal decline in plasma concentration) is approximately 10 hours. Dipyridamole is highly bound to plasma proteins. It is metabolized in the liver where it is conjugated as a glucuronide and excreted with the bile.

INDICATIONS AND USAGE

Dipyridamole Tablets, USP are indicated as an adjunct to coumarin anticoagulants in the prevention of postoperative thromboembolic complications of cardiac valve replacement.

CONTRAINDICATIONS

Hypersensitivity to dipyridamole and any of the other components.

PRECAUTIONS

General

Coronary Artery Disease

Dipyridamole has a vasodilatory effect and should be used with caution in patients with severe coronary artery disease (e.g., unstable angina or recently sustained myocardial infarction). Chest pain may be aggravated in patients with underlying coronary artery disease who are receiving dipyridamole.

Hepatic Insufficiency

Elevations of hepatic enzymes and hepatic failure have been reported in association with dipyridamole administration.

Hypotension

Dipyridamole should be used with caution in patients with hypotension since it can produce peripheral vasodilation.

Laboratory Tests

Dipyridamole has been associated with elevated hepatic enzymes.

Drug Interactions

No pharmacokinetic drug-drug interaction studies were conducted with dipyridamole tablets. The following information was obtained from the literature.

Adenosine

Dipyridamole has been reported to increase the plasma levels and cardiovascular effects of adenosine. Adjustment of adenosine dosage may be necessary.

Cholinesterase Inhibitors

Dipyridamole may counteract the antcholinesterase effect of cholinesterase inhibitors, thereby potentially aggravating myasthenia gravis.

Carcinogenesis, Mutagenesis, Impairment of Fertility

In studies in which dipyridamole was administered in the feed to mice (up to 111 weeks in males and females) and rats (up to 128 weeks in males and up to 142 weeks in females), there was no evidence of drug-related carcinogenesis. The highest dose administered in these studies (75 mg/kg/day) was, on a mg/m² basis, about equivalent to the maximum recommended daily human oral dose (MRHD) in mice and about twice the MRHD in rats. Mutagenicity tests of dipyridamole with bacterial and mammalian cell systems were negative. There was no evidence of impaired fertility when dipyridamole was administered to male and female rats at oral doses up to 500 mg/kg/day (about 12 times the MRHD on a mg/m² basis). A significant reduction in number of corpora lutea with consequent reduction in implantations and live fetuses was, however, observed at 1250 mg/kg (more than 30 times the MRHD on a mg/m² basis).

Pregnancy

Teratogenic Effects

PREGNANCY CATEGORY B

Reproduction studies have been performed in mice, rabbits and rats at oral dipyridamole doses of up to 125 mg/kg, 40 mg/kg and 1000 mg/kg, respectively (about 1 ½, 2 and 25 times the maximum recommended daily human oral dose, respectively, on a mg/m² basis) and have revealed no evidence of

harm to the fetus due to dipyridamole. There are, however, no adequate and well-controlled studies in pregnant women. Because animal reproduction studies are not always predictive of human response, dipyridamole should be used during pregnancy only if clearly needed.

Nursing Mothers

As dipyridamole is excreted in human milk, caution should be exercised when dipyridamole tablets are administered to a nursing woman.

Pediatric Use

Safety and effectiveness in the pediatric population below the age of 12 years have not been established.

ADVERSE REACTIONS

Adverse reactions at therapeutic doses are usually minimal and transient. On long-term use of dipyridamole tablets initial side effects usually disappear. The following reactions in Table 1 were reported in two heart valve replacement trials comparing dipyridamole tablets and warfarin therapy to either warfarin alone or warfarin and placebo:

valve Replacement Triais					
Adverse Reaction Dipyridamole Tablets/ Placebo/					
Warfarin	Warfarin				
147	170				
13.6%	8.2%				
6.1%	3.5%				
2.3%	0.0%				
2.3%	1.1%				
	byridamole Tabl Warfarin 147 13.6% 6.1% 2.3%				

Table 1. Adverse Reactions Reported in 2 HeartValve Replacement Trials

Other reactions from uncontrolled studies include diarrhea, vomiting, flushing and pruritus. In addition, angina pectoris has been reported rarely and there have been rare reports of liver dysfunction. On those uncommon occasions when adverse reactions have been persistent or intolerable, they have ceased on withdrawal of the medication.

When dipyridamole tablets were administered concomitantly with warfarin, bleeding was no greater in frequency or severity than that observed when warfarin was administered alone. In rare cases, increased bleeding during or after surgery has been observed.

In post-marketing reporting experience, there have been rare reports of hypersensitivity reactions (such as rash, urticaria, severe bronchospasm, and angioedema), larynx edema, fatigue, malaise, myalgia, arthritis, nausea, dyspepsia, paresthesia, hepatitis, thrombocytopenia, alopecia, cholelithiasis, hypotension, palpitation, and tachycardia.

OVERDOSAGE

In case of real or suspected overdose, seek medical attention or contact a Poison Control Center immediately. Careful medical management is essential. Based upon the known hemodynamic effects of dipyridamole, symptoms such as warm feeling, flushes, sweating, restlessness, feeling of weakness and dizziness may occur. A drop in blood pressure and tachycardia might also be observed.

Symptomatic treatment is recommended, possibly including a vasopressor drug. Gastric lavage should be considered. Administration of xanthine derivatives (e.g., aminophylline) may reverse the

hemodynamic effects of dipyridamole overdose. Since dipyridamole is highly protein bound, dialysis is not likely to be of benefit.

DOSAGE AND ADMINISTRATION

Adjunctive Use in Prophylaxis of Thromboembolism after Cardiac Valve Replacement

The recommended dose is 75 to 100 mg four times daily as an adjunct to the usual warfarin therapy. Please note that aspirin is not to be administered concomitantly with coumarin anticoagulants.

HOW SUPPLIED

Dipyridamole Tablets USP, 25 mg are orange, round, film-coated tablets debossed "LCI" on one side and "1461" on the other side and are available in bottles of:

100 tablets	NDC 0527-1461-01
500 tablets	NDC 0527-1461-05
1000 tablets	NDC 0527-1461-10

Dipyridamole Tablets USP, 50 mg are orange, round, film-coated tablets debossed "LCI" on one side and "1462" on the other side and are available in bottles of:

100 tablets	NDC 0527-1462-01
500 tablets	NDC 0527-1462-05
1000 tablets	NDC 0527-1462-10

Dipyridamole Tablets USP, 75 mg are orange, round, film-coated tablets debossed "LCI" on one side and "1463" on the other side and are available in bottles of:

100 tablets	NDC 0527-1463-01
500 tablets	NDC 0527-1463-05
1000 tablets	NDC 0527-1463-10

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

KEEP OUT OF REACH OF CHILDREN.

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

Manufactured By: Lannett Company, Inc. Philadelphia, PA 19136

Rev. 01/08

PRINCIPAL DISPLAY PANEL

NDC 0527-1461-01 Lannett DIPYRIDAMOLE TABLETS, USP 25 mg Rx Only 100 TABLETS



1100 0527-14

Lannett

DIPYRIDAMOLE TABLETS, USP

50 mg

Rx Only

100 TABLETS

USUAL DOSAGE: See package insert for full prescribing information.	NDC 0527-1462-01	Each tablet contains: Dipyridamole, USP		
Dispense in a tight, light-resistant container as defined in the USP with a child-resistant closure.		Inactive Ingredients: Microcrystalline cellulose, povidone, crospovidone, lactose monohydrate,		
Store at 20° to 25°C (68° to 77°F) [See USP Controlled Room Temperature].	DIPYRIDAMOLE TABLETS, USP	colloidal silicon dioxide, magnesium stearate, FD&C Red # 40 aluminum lake, FD&C Yellow # 6 aluminum lake,		
Rev. 10/10 10-377	50 mg	lecithin, polyethylene glycol, polyvinyl alcohol, talc, titanium dioxide Manufactured by:		
	Rx Only	Lannett Company, Inc. Philadelphia, PA 19136	Lot No.:	Exp. Date:
N 0527-1462-015	100 TABLETS	Made in the USA	Lot	Ě

NDC 0527-1463-01

Lannett

DIPYRIDAMOLE TABLETS, USP

75 mg

Rx Only

100 TABLETS

USUAL DOSAGE: See package insert for full prescribing information.	NDC 0527-1463-01	Each tablet contains: Dipyridamole, USP		
Dispense in a tight, light-resistant container as defined in the USP with a child-resistant closure.		Inactive Ingredients: Microcrystalline cellulose, povidone, crospovidone, lactose monohydrate, colloidal silicon dioxide, magnesium stearate, FD&C Red # 40 aluminum lake, FD&C Yellow # 6 aluminum lake, lecithin, polyethylene glycol, polyvinyl		
Store at 20° to 25°C (68° to 77°F) [See USP Controlled Room Temperature]. Rev. 10/10 10-379	DIPYRIDAMOLE TABLETS, USP			
	75 mg	alcohol, talc, titanium dioxide Manufactured by:		
	Rx Only	Lannett Company, Inc. Philadelphia, PA 19136	ot No.:	Exp. Date:
N 0527-1463-012	100 TABLETS	Made in the USA	Lot	Exp.

DIPYRIDAMOLE						
dipyridamole tablet, film coa	ted					
Product Information						
Product Type	HUMAN PRESCRIP	TION DRUG	Item Code	(Source)	NDC:0	527-1461
Route of Administration	ORAL					
Active Ingredient/Active	e Moiety					
	Ingredient Name			Basis of S	Strength	Strength
DIPYRIDAMOLE (UNII: 64ALC	7F90C) (DIPYRIDAMOLE -	UNII:64ALC7F90C)		DIPYRIDAMC		25 mg
Inactive Ingredients						
	Ingredien	t Name			:	Strength
CELLULOSE, MICROCRYSTA	LLINE (UNII: OP1R32D61U	J)				
POVIDONE (UNII: FZ989GH94)	E)					
CROSPOVIDONE (UNII: 2S783	0E561)					
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)					
SILICON DIO XIDE (UNII: ETJ7	Z6XBU4)					
MAGNESIUM STEARATE (UNI	I: 70097M6I30)					
FD&C RED NO.40 (UNII: WZB	9127XOA)					
FD&C YELLOW NO.6 (UNII: H	177VE193A8)					
LECITHIN, SOYBEAN (UNII: 11	DI56QDM62)					
POLYETHYLENE GLYCOL, U	NSPECIFIED (UNII: 3WJQ0	SDW1A)				
POLYVINYL ALCOHOL, UNS	PECIFIED (UNII: 532B59J9	90)				
TALC (UNII: 7SEV7J4R1U)						
TITANIUM DIO XIDE (UNII: 15F	TX9 V2JP)					
ALUMINUM O XIDE (UNII: LMIZ	2606933)					
Product Characteristics						
Color	ORANGE	Score			no score	
Shape	ROUND	Size			6mm	

		Imprint	Code		I	LCI;1461	
Contains							
Packaging							
# Item Code		Package Description		Marketing	Start Date	Marketin	ng End Dat
1 NDC:0527-1461-01	100 in 1 BOTTL	E; Type 0: Not a Combination Pr	roduct	04/23/2008			
2 NDC:0527-1461-05	500 in 1 BOTTL	E; Type 0: Not a Combination P	roduct	04/23/2008			
3 NDC:0527-1461-10	1000 in 1 BOTT	LE; Type 0: Not a Combination l	Product	04/23/2008			
Marketing Inf							
Marketing Category		on Number or Monograph Ci			Start Date	Marketi	ng End Dat
ANDA	ANDA04089	8	1	04/23/2008			
DIPYRIDAMO	LE						
dipyridamole tablet,	film coated						
Product Informa	tion						
Product Type		IIIIMAN DESCENTION DEUC		to a Code	(2)	NDC:0	527-1462
	HUMAN PRESCRIPTION DRUG	j l	item Code	(Source)	NDC.0	JZ/-1402	
	tion	HUMAN PRESCRIPTION DRUG	j	Item Code	(Source)	NDC.0	527-1402
Route of Administra	t/Active Moi	ORAL ety	3	nem Code			
Route of Administra Active Ingredien	t/Active Moi In	ORAL ety gredient Name		Item Code	Basis of S	trength	Strengt
Route of Administra Active Ingredient	t/Active Moi In	ORAL ety				trength	
Route of Administra Active Ingredien DIPYRIDAMOLE (UNI	t/Active Moi In I: 64ALC7F90C)	ORAL ety gredient Name		Item Code	Basis of S	trength	Strengt
Route of Administra Active Ingredient	t/Active Moi In I: 64ALC7F90C)	ORAL ety gredient Name			Basis of S	trength LE	Strengt
Route of Administra Active Ingredien DIPYRIDAMOLE (UNI	t/Active Moi In E: 64ALC7F90C)	ORAL ety gredient Name (DIPYRIDAMOLE - UNII:64ALC Ingredient Name			Basis of S	trength LE	Strengt 50 mg
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Route of Administra Active Ingredient DIPYRIDAMOLE (UNI Inactive Ingredie CELLULOSE, MICRO POVIDONE (UNII: FZ9 CROSPOVIDONE (UN	t/Active Moi In II: 64ALC7F90C) ents CRYSTALLINE 89GH94E) III: 2S7830E561)	ORAL ety gredient Name (DIPYRIDAMOLE - UNII:64ALC Ingredient Name ; (UNII: OP1R32D61U)			Basis of S	trength LE	Strengt 50 mg
Route of Administra Active Ingredien DIPYRIDAMOLE (UNI Inactive Ingredie CELLULOSE, MICRO POVIDONE (UNII: FZ9	t/Active Moi In II: 64ALC7F90C) ents CRYSTALLINE 89GH94E) III: 2S7830E561)	ORAL ety gredient Name (DIPYRIDAMOLE - UNII:64ALC Ingredient Name ; (UNII: OP1R32D61U)			Basis of S	trength LE	Strengt 50 mg
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Route of Administra Active Ingrediem DIPYRIDAMOLE (UNI Inactive Ingredie CELLULOSE, MICRO POVIDONE (UNII: FZ9 CROSPOVIDONE (UN LACTOSE MONOHYI SILICON DIOXIDE (U MAGNESIUM STEARA FD&C RED NO. 40 (U FD&C YELLOW NO. 1 LECITHIN, SOYBEAN POLYETHYLENE GL POLYVINYL ALCOH TALC (UNII: 7SEV7J44	t/Active Moi In; E: 64ALC7F90C) Ents CRYSTALLINE 89GH94E) NII: 2S7830E561) DRATE (UNII: EN NII: ETJ7Z6XBU ATE (UNII: 10156QD YCOL, UNSPECIFI R1U) (UNII: 15FIX9V2J	ORAL ORAL ORAL ORAL ORAL ORAL ORAL ORAL			Basis of S	trength LE	Strengt 50 mg

P	roduct Characte	eristic	S				
Color ORANGE			ORANGE	Score		no score	
Shape		ROUND	Size		8 mm		
F	lavor			Imprint Code		LCI;1462	
С	ontains						
P	ackaging						
#	Item Code		Package Desc	ription	ion Marketing Start Date		
1	NDC:0527-1462-01	100 in	1 BOTTLE; Type 0: Not a	Combination Product	04/23/2008		
2	NDC:0527-1462-05	500 in	1 BOTTLE; Type 0: Not a	Combination Product	04/23/2008		
3	NDC:0527-1462-10	1000 ir	n 1 BOTTLE; Type 0: Not	a Combination Product	04/23/2008		
Marketing Information							
ľ	Marketing Category	y Ap	oplication Number or M	Monograph Citation	Marketing Start Date	Marketing End Date	
A	NDA	AND	A040898		04/23/2008		

DIP	YR	IDA	۱M	OLE	

dipyridamole tablet, film coated

Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0527-1463
Route of Administration	ORAL		

Active Ingredient/Active Moiety					
Ingredient Name	Basis of Strength Strength	1			
DIPYRIDAMOLE (UNII: 64ALC7F90C) (DIPYRIDAMOLE - UNII:64ALC7F9	OC) DIPYRIDAMOLE 75 mg				

Inactive Ingredients				
Ingredient Name	Strength			
CELLULOSE, MICROCRYSTALLINE (UNII: OP1R32D61U)				
PO VIDO NE (UNII: FZ989GH94E)				
CROSPOVIDONE (UNII: 2S7830E561)				
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)				
SILICON DIO XIDE (UNII: ETJ7Z6 XBU4)				
MAGNESIUM STEARATE (UNII: 70097M6I30)				
FD&C RED NO. 40 (UNII: WZB9127XOA)				
FD&C YELLOW NO.6 (UNII: H77VEI93A8)				
LECITHIN, SO YBEAN (UNII: 1DI56 QDM62)				
POLYETHYLENE GLYCOL, UNSPECIFIED (UNII: 3WJQ0SDW1A)				
POLYVINYL ALCOHOL, UNSPECIFIED (UNII: 532B59J990)				
TALC (UNII: 7SEV7J4R1U)				

TITANIUM DIO XIDE	(UNII: 15]	FIX9 V2JP)				
ALUMINUM OXIDE (UNII: LMI26O6933)						
Product Charact	eristics	i				
Color		ORANGE	Score		no score	
Shape		ROUND	Size		9 mm	
Flavor			Imprint Code		LCI;1463	
Contains						
Packaging						
# Item Code		Package Description		Marketing Start Date	• Marketing End Date	
1 NDC:0527-1463-01	100 in 1	BOTTLE; Type 0: Not a Co	mbination Product	04/23/2008		
2 NDC:0527-1463-05	500 in 1	BOTTLE; Type 0: Not a Co	mbination Product	04/23/2008		
3 NDC:0527-1463-10	1000 in	1 BOTTLE; Type 0: Not a C	ombination Product	04/23/2008		
Marketing Information						
Marketing Categor	y Ap	plication Number or Mor	nograph Citation	Marketing Start Date	Marketing End Date	
ANDA	AND	040898		04/23/2008		
mudn		1040050		0 1128/2000		

Labeler - Lannett Company, Inc. (002277481)

Establishment								
Name	Address	ID/FEI	Business Operations					
Lannett Company, Inc.		829757603	ANALYSIS(0527-1461, 0527-1462, 0527-1463)					

Revised: 11/2010

Lannett Company, Inc.