

ISOSORBIDE DINITRATE- isosorbide dinitrate tablet AvPAK

Isosorbide Dinitrate Tablets, USP

Rx Only

DESCRIPTION

Isosorbide dinitrate, an organic nitrate, is a vasodilator with effects on both arteries and veins. The chemical name for isosorbide dinitrate is 1,4:3,6-dianhydro-D-glucitol 2, 5-dinitrate. The compound has the following structural formula:

$C_6H_8N_2O_8$	MW 236.14
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Isosorbide dinitrate is a white, crystalline, odorless compound which is stable in air and in solution, has a melting point of 70°C and has an optical rotation of +134° (c=1.0, alcohol, 20°C). Isosorbide dinitrate is freely soluble in organic solvents such as acetone, alcohol, and ether, but is only sparingly soluble in water.

Isosorbide dinitrate tablets are available for oral administration as 5 mg, 10 mg, 20 mg, or 30 mg tablets.

Each tablet contains the following inactive ingredients: lactose anhydrous, magnesium stearate, microcrystalline cellulose, sodium starch glycolate and stearic acid. In addition, the 20 mg tablet contains D&C Yellow #10, FD&C Blue #1, and FD&C Yellow #6; the 30 mg tablet contains FD&C Blue #1.

CLINICAL PHARMACOLOGY

The principal pharmacological action of isosorbide dinitrate is relaxation of vascular smooth muscle and consequent dilatation of peripheral arteries and veins, especially the latter. Dilatation of the veins promotes peripheral pooling of blood and decreases venous return to the heart, thereby reducing left ventricular end-diastolic pressure and pulmonary capillary wedge pressure (preload). Arteriolar relaxation reduces systemic vascular resistance, systolic arterial pressure, and mean arterial pressure (afterload). Dilatation of the coronary arteries also occurs. The relative importance of preload reduction, afterload reduction, and coronary dilatation remains undefined.

Dosing regimens for most chronically used drugs are designed to provide plasma concentrations that are continuously greater than a minimally effective concentration. This strategy is inappropriate for organic nitrates. Several well-controlled clinical trials have used exercise testing to assess the anti-anginal efficacy of continuously-delivered nitrates. In the large majority of these trials, active agents were no more effective than placebo after 24 hours (or less) of continuous therapy. Attempts to overcome nitrate tolerance by dose escalation, even to doses far in excess of those used acutely, have

consistently failed. Only after nitrates have been absent from the body for several hours has their anti-anginal efficacy been restored.

Pharmacokinetics

Absorption of isosorbide dinitrate after oral dosing is nearly complete, but bioavailability is highly variable (10% to 90%), with extensive first-pass metabolism in the liver. Serum levels reach their maxima about an hour after ingestion. The average bioavailability of isosorbide dinitrate is about 25%; most studies have observed progressive increases in bioavailability during chronic therapy.

Once absorbed, the volume of distribution of isosorbide dinitrate is 2 to 4 L/kg, and this volume is cleared at the rate of 2 to 4 L/min, so isosorbide dinitrate's half-life in serum is about an hour. Since the clearance exceeds hepatic blood flow, considerable extra hepatic metabolism must also occur. Clearance is affected primarily by denitration to the 2-mononitrate (15 to 25%) and the 5-mononitrate (75 to 85%).

Both metabolites have biological activity, especially the 5-mononitrate. With an overall half-life of about 5 hours, the 5-mononitrate is cleared from the serum by denitration to isosorbide, glucuronidation to the 5-mononitrate glucuronide, and denitration/hydration to sorbitol. The 2-mononitrate has been less well studied, but it appears to participate in the same metabolic pathways, with a half-life of about 2 hours.

The daily dose-free interval sufficient to avoid tolerance to organic nitrates has not been well defined. Studies of nitroglycerin (an organic nitrate with a very short half-life) have shown that daily dose-free intervals of 10 to 12 hours are usually sufficient to minimize tolerance. Daily dose-free intervals that have succeeded in avoiding tolerance during trials of moderate doses (*e.g.*, 30 mg) of immediate-release isosorbide dinitrate have generally been somewhat longer (at least 14 hours), but this is consistent with the longer half-lives of isosorbide dinitrate and its active metabolites.

Few well-controlled clinical trials of organic nitrates have been designed to detect rebound or withdrawal effects. In one such trial, however, subjects receiving nitroglycerin had *lessexercise* tolerance at the end of the daily dose-free interval than the parallel group receiving placebo. The incidence, magnitude, and clinical significance of similar phenomena in patients receiving isosorbide dinitrate have not been studied.

INDICATIONS AND USAGE

Isosorbide dinitrate tablets are indicated for the prevention of angina pectoris due to coronary artery disease. The onset of action of immediate-release oral isosorbide dinitrate is not sufficiently rapid for this product to be useful in aborting an acute anginal episode.

CONTRAINDICATIONS

Isosorbide dinitrate is contraindicated in patients who are allergic to isosorbide dinitrate or any of its other ingredients.

Do not use isosorbide dinitrate in patients who are taking certain drugs for erectile dysfunction (phosphodiesterase inhibitors), such as sildenafil, tadalafil, or vardenafil. Concomitant use can cause severe hypotension, syncope, or myocardial ischemia.

Do not use isosorbide dinitrate in patients who are taking the soluble guanylate cyclase stimulator riociguat. Concomitant use can cause hypotension.

WARNINGS

Amplification of the vasodilatory effects of isosorbide dinitrate by sildenafil can result in severe hypotension. The time course and dose dependence of this interaction have not been studied.

Appropriate supportive care has not been studied, but it seems reasonable to treat this as a nitrate overdose, with elevation of the extremities and with central volume expansion.

The benefits of immediate-release oral isosorbide dinitrate in patients with acute myocardial infarction or congestive heart failure have not been established. If one elects to use isosorbide dinitrate in these conditions, careful clinical or hemodynamic monitoring must be used to avoid the hazards of hypotension and tachycardia. Because the effects of oral isosorbide dinitrate are so difficult to terminate rapidly, this formulation is not recommended in these settings.

GENERAL PRECAUTIONS

Severe hypotension, particularly with upright posture, may occur with even small doses of isosorbide dinitrate. This drug should therefore be used with caution in patients who may be volume depleted or who, for whatever reason, are already hypotensive. Hypotension induced by isosorbide dinitrate may be accompanied by paradoxical bradycardia and increased angina pectoris.

Nitrate therapy may aggravate the angina caused by hypertrophic cardiomyopathy.

As tolerance to isosorbide dinitrate develops, the effect of sublingual nitroglycerin on exercise tolerance, although still observable, is somewhat blunted.

Some clinical trials in angina patients have provided nitroglycerin for about 12 continuous hours of every 24-hour day. During the daily dose-free interval in some of these trials, anginal attacks have been more easily provoked than before treatment, and patients have demonstrated hemodynamic rebound and *decreased* exercise tolerance. The importance of these observations to the routine, clinical use of immediate-release oral isosorbide dinitrate is not known.

In industrial workers who have had long-term exposure to unknown (presumably high) doses of organic nitrates, tolerance clearly occurs. Chest pain, acute myocardial infarction, and even sudden death have occurred during temporary withdrawal of nitrates from these workers, demonstrating the existence of true physical dependence.

Information for Patients

Patients should be told that the anti-anginal efficacy of isosorbide dinitrate is strongly related to its dosing regimen, so the prescribed schedule of dosing should be followed carefully. In particular, daily headaches sometimes accompany treatment with isosorbide dinitrate. In patients who get these headaches, the headaches are a marker of the activity of the drug. Patients should resist the temptation to avoid headaches by altering the schedule of their treatment with isosorbide dinitrate, since loss of headache may be associated with simultaneous loss of anti-anginal efficacy. Aspirin and/or acetaminophen, on the other hand, often successfully relieve isosorbide dinitrate-induced headaches with no deleterious effect on isosorbide dinitrate's anti-anginal efficacy.

Treatment with isosorbide dinitrate may be associated with lightheadedness on standing, especially just after rising from a recumbent or seated position. This effect may be more frequent in patients who have also consumed alcohol.

Drug Interactions

The vasodilating effects of isosorbide dinitrate may be additive with those of other vasodilators. Alcohol, in particular, has been found to exhibit additive effects of this variety.

Concomitant use of isosorbide dinitrate with phosphodiesterase inhibitors in any form is contraindicated (see **CONTRAINDICATIONS**).

Concomitant use of isosorbide dinitrate with riociguat, a soluble guanylate cyclase stimulator, is contraindicated (see **CONTRAINDICATIONS**).

Carcinogenesis and Mutagenesis and Impairment of Fertility

No long-term studies in animals have been performed to evaluate the carcinogenic potential of isosorbide dinitrate. In a modified two-litter reproduction study, there was no remarkable gross pathology and no altered fertility or gestation among rats fed isosorbide dinitrate at 25 or 100 mg/kg/day.

Pregnancy Category C

At oral doses 35 and 150 times the maximum recommended human daily dose, isosorbide dinitrate has been shown to cause a dose-related increase in embryotoxicity (increase in mummified pups) in rabbits. There are no adequate, well-controlled studies in pregnant women. Isosorbide dinitrate should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

Nursing Mothers

It is not known whether isosorbide dinitrate is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when isosorbide dinitrate is administered to a nursing woman.

Pediatric Use

Safety and effectiveness in pediatric patients have not been established.

Geriatric Use

Clinical studies of isosorbide dinitrate did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. Other reported clinical experience has not identified differences in responses between the elderly and younger patients. 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.

ADVERSE REACTIONS

Adverse reactions to isosorbide dinitrate are generally dose-related, and almost all of these reactions are the result of isosorbide dinitrate's activity as a vasodilator. Headache, which may be severe, is the most commonly reported side effect. Headache may be recurrent with each daily dose, especially at higher doses. Transient episodes of lightheadedness, occasionally related to blood pressure changes, may also occur. Hypotension occurs infrequently, but in some patients it may be severe enough to warrant discontinuation of therapy. Syncope, crescendo angina, and rebound hypertension have been reported but are uncommon.

Extremely rarely, ordinary doses of organic nitrates have caused methemoglobinemia in normal-seeming patients. Methemoglobinemia is so infrequent at these doses that further discussion of its diagnosis and treatment is deferred (see **OVERDOSAGE**).

Data are not available to allow estimation of the frequency of adverse reactions during treatment with isosorbide dinitrate tablets.

To report SUSPECTED ADVERSE REACTIONS contact AvKARE, Inc. at 1-855-361-3993; email drugsafety@avkare.com; or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

OVERDOSAGE

Hemodynamic Effects

The ill effects of isosorbide dinitrate overdose are generally the results of isosorbide dinitrate's capacity to induce vasodilatation, venous pooling, reduced cardiac output, and hypotension. These

hemodynamic changes may have protean manifestations, including increased intracranial pressure, with any or all of persistent throbbing headache, confusion, and moderate fever; vertigo; palpitations; visual disturbances; nausea and vomiting (possibly with colic and even bloody diarrhea); syncope (especially in the upright posture); air hunger and dyspnea, later followed by reduced ventilatory effort; diaphoresis, with the skin either flushed or cold and clammy; heart block and bradycardia, paralysis; coma; seizures; and death.

Laboratory determinations of serum levels of isosorbide dinitrate and its metabolites are not widely available, and such determinations have, in any event, no established role in the management of isosorbide dinitrate overdose.

There are no data suggesting what dose of isosorbide dinitrate is likely to be life-threatening in humans. In rats, the median acute lethal dose (LD₅₀) was found to be 1100 mg/kg.

No data are available to suggest physiological maneuvers (e.g., maneuvers to change the pH of the urine) that might accelerate elimination of isosorbide dinitrate and its active metabolites. Similarly, it is not known which, if any, of these substances can usefully be removed from the body by hemodialysis.

No specific antagonist to the vasodilator effects of isosorbide dinitrate is known, and no intervention has been subject to controlled studies as a therapy for isosorbide dinitrate overdose. Because the hypotension associated with isosorbide dinitrate overdose is the result of venodilatation and arterial hypovolemia, prudent therapy in this situation should be directed toward increase in central fluid volume. Passive elevation of the patient's legs may be sufficient, but intravenous infusion of normal saline or similar fluid may also be necessary.

The use of epinephrine or other arterial vasoconstrictors in this setting is likely to do more harm than good.

In patients with renal disease or congestive heart failure, therapy resulting in central volume expansion is not without hazard. Treatment of isosorbide dinitrate overdosage in these patients may be subtle and difficult, and invasive monitoring may be required.

Methemoglobinemia

Nitrate ions liberated during metabolism of isosorbide dinitrate can oxidize hemoglobin into methemoglobin. Even in patients totally without cytochrome b₅ reductase activity, however, and even assuming that the nitrate moieties of isosorbide dinitrate are quantitatively applied to oxidation of hemoglobin, about 1 mg/kg of isosorbide dinitrate should be required before any of these patients manifests clinically significant ($\geq 10\%$) methemoglobinemia. In patients with normal reductase function, significant production of methemoglobin should require even larger doses of isosorbide dinitrate. In one study in which 36 patients received 2 to 4 weeks of continuous nitroglycerin therapy at 3.1 to 4.4 mg/hr (equivalent, in total administered dose of nitrate ions, to 4.8 to 6.9 mg of bioavailable isosorbide dinitrate per hour), the average methemoglobin level measured was 0.2%; this was comparable to that observed in parallel patients who received placebo.

Notwithstanding these observations, there are case reports of significant methemoglobinemia in association with moderate overdoses of organic nitrates. None of the affected patients had been thought to be unusually susceptible.

Methemoglobin levels are available from most clinical laboratories. The diagnosis should be suspected in patients who exhibit signs of impaired oxygen delivery despite adequate cardiac output and adequate arterial pO₂. Classically, methemoglobinemic blood is described as chocolate brown, without color change on exposure to air.

When methemoglobinemia is diagnosed, the treatment of choice is methylene blue, 1 to 2 mg/kg intravenously.

DOSAGE AND ADMINISTRATION

As noted under "**CLINICAL PHARMACOLOGY**," multiple-dose studies with isosorbide dinitrate and other nitrates have shown that maintenance of continuous 24-hour plasma levels results in refractory tolerance. Every dosing regimen for isosorbide dinitrate tablets must provide a daily dose-free interval to minimize the development of this tolerance. With immediate-release isosorbide dinitrate, it appears that one daily dose-free interval must be at least 14 hours long.

As also noted under "**CLINICAL PHARMACOLOGY**," the effects of the second and later doses have been smaller and shorter-lasting than the effects of the first.

Large controlled studies with other nitrates suggest that no dosing regimen with isosorbide dinitrate tablets should be expected to provide more than about 12 hours of continuous anti-anginal efficacy per day.

As with all titratable drugs, it is important to administer the minimum dose which produces the desired clinical effect. The usual starting dose of isosorbide dinitrate is 5 mg to 20 mg, two or three times daily. For maintenance therapy, 10 mg to 40 mg, two or three times daily is recommended. Some patients may require higher doses. A daily dose-free interval of at least 14 hours is advisable to minimize tolerance. The optimal interval will vary with the individual patient, dose and regimen.

HOW SUPPLIED

Isosorbide dinitrate tablets, USP are available as follows:

5 mg oral, white, round, bisected tablets, debossed with "PAR 020" on one side and plain on the other side.

NDC 50268-447-15 (10 tablets per card, 5 cards per carton).

10 mg oral, white, round, bisected tablets, debossed with "PAR 021" on one side and plain on the other side.

NDC 50268-448-15 (10 tablets per card, 5 cards per carton).

20 mg oral, green, round, bisected tablets, debossed with "PAR 022" on one side and plain on the other side.

NDC 50268-449-15 (10 tablets per card, 5 cards per carton).

30 mg oral, blue, round, bisected tablets, debossed with "PAR 009" on one side and plain on the other side.

Dispensed in Unit Dose Package. For Institutional Use Only.

Store at room temperature, approximately 25°C (77°F). Protect from light. Keep bottles tightly closed.

Dispense in a light-resistant, tight container.

CLINICAL STUDIES

In clinical trials, immediate-release oral isosorbide dinitrate has been administered in a variety of regimens, with total daily doses ranging from 30 mg to 480 mg. Controlled trials of single oral doses of isosorbide dinitrate have demonstrated effective reductions in exercise-related angina for up to 8 hours. Anti-anginal activity is present about 1 hour after dosing.

Most controlled trials of multiple-dose oral isosorbide dinitrate taken every 12 hours (or more frequently) for several weeks have shown statistically significant anti-anginal efficacy for only 2 hours after dosing. Once-daily regimens, and regimens with one daily dose-free interval of at least 14 hours (e.g., a regimen providing doses at 0800, 1400 and 1800 hours), have shown efficacy after the first dose of each day that was similar to that shown in the single-dose studies cited above. The effects of the second and later doses have been smaller and shorter-lasting than the effect of the first.

From large, well-controlled studies of other nitrates, it is reasonable to believe that the maximal achievable daily duration of anti-anginal effect from isosorbide dinitrate is about 12 hours. No dosing regimen for isosorbide dinitrate, however, has ever actually been shown to achieve this duration of effect. One study of 8 patients, who were administered a pretitrated dose (average 27.5 mg) of immediate-release isosorbide dinitrate at 0800, 1300, and 1800 hours for 2 weeks, revealed that significant anti-anginal effectiveness was discontinuous and totaled about 6 hours in a 24 hour period.

Manufactured for:
AvKARE, Inc.
Pulaski, TN 38478

Mfg. Rev. 02/16

AV Rev. 05/17 (P)
AvPAK

PACKAGE LABEL PRINCIPAL DISPLAY PANEL

NDC 50268-447-15
Isosorbide Dinitrate Tablets, USP Oral
5mg
Rx Only
50 Tablets (5x10) Unit Dose
5026844715

NDC 50268-447-15
Isosorbide Dinitrate Tablets, USP Oral
5mg
Rx Only
50 Tablets (5x10) Unit Dose
5026844715

Each tablet contains:
Isosorbide Dinitrate 5 mg

Usual Dosage:
Read Accompanying Literature.

Dispense in a light-resistant, tight container.

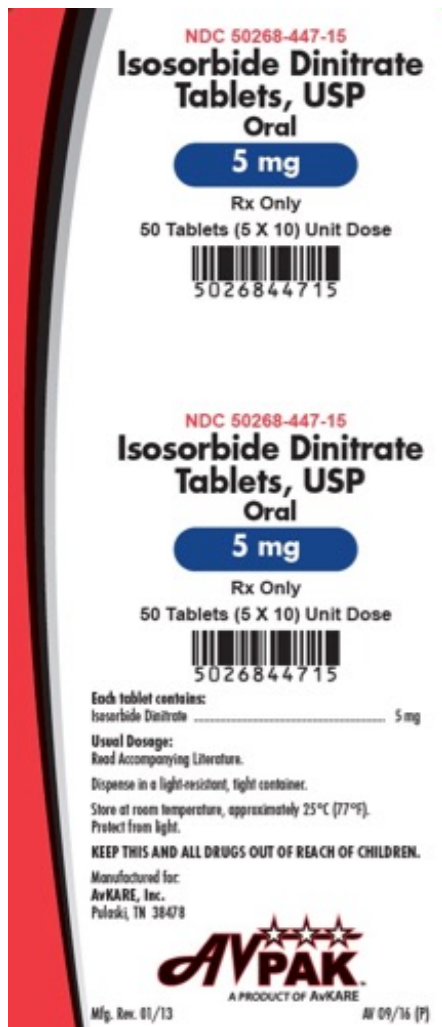
Store at room temperature, approximately 25°C (77°F).
Protect from light.

KEEP THIS AND ALL DRUGS OUT OF REACH OF CHILDREN.

Manufactured for:
AvKARE, Inc.
Pulaski, TN 38478

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Mfg. Rev. 01/13 AV 09/16 (P)



NDC 50268-448-15

Isosorbide Dinitrate Tablets, USP Oral

10mg

Rx Only

50 Tablets (5x10) Unit Dose

5026844815

NDC 50268-448-15

Isosorbide Dinitrate Tablets, USP Oral

10mg

Rx Only

50 Tablets (5x10) Unit Dose

5026844815

Each tablet contains:

Isosorbide Dinitrate 10 mg

Usual Dosage:

Read Accompanying Literature.

Dispense in a light-resistant, tight container.

Store at room temperature, approximately 25°C (77°F).

Protect from light.

KEEP THIS AND ALL DRUGS OUT OF REACH OF CHILDREN.

Manufactured for:

AvKARE, Inc.

Pulaski, TN 38478

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Mfg. Rev. 02/16

AV Rev. 06/17(P)

NDC 50268-448-15

**Isosorbide Dinitrate
Tablets, USP**

Oral

10 mg

Rx Only

50 Tablets (5 X 10) Unit Dose



NDC 50268-448-15

**Isosorbide Dinitrate
Tablets, USP**

Oral

10 mg

Rx Only

50 Tablets (5 X 10) Unit Dose



Each tablet contains:

Isosorbide Dinitrate 10 mg

USUAL DOSAGE:

Read Accompanying Literature.

Store at room temperature, approximately 25°C (77°F).

Protect from light.

KEEP THIS AND ALL DRUGS OUT OF REACH OF CHILDREN.

Manufactured for:

AvKARE, Inc.

Pulaski, TN 38478



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Mfg. Rev. 02/16

AV 06/17 (P)

NDC 50268-449-15

Isosorbide Dinitrate Tablets, USP Oral

20mg

Rx Only

50 Tablets (5x10) Unit Dose

5026844915

NDC 50268-449-15

Isosorbide Dinitrate Tablets, USP Oral

20mg

Rx Only

50 Tablets (5x10) Unit Dose

5026844915

Each tablet contains:

Isosorbide Dinitrate 20 mg

Usual Dosage:

Read Accompanying Literature.

Dispense in a light-resistant, tight container.

Store at room temperature, approximately 25°C (77°F).

Protect from light.

KEEP THIS AND ALL DRUGS OUT OF REACH OF CHILDREN.

Manufactured for:

AvKARE, Inc.

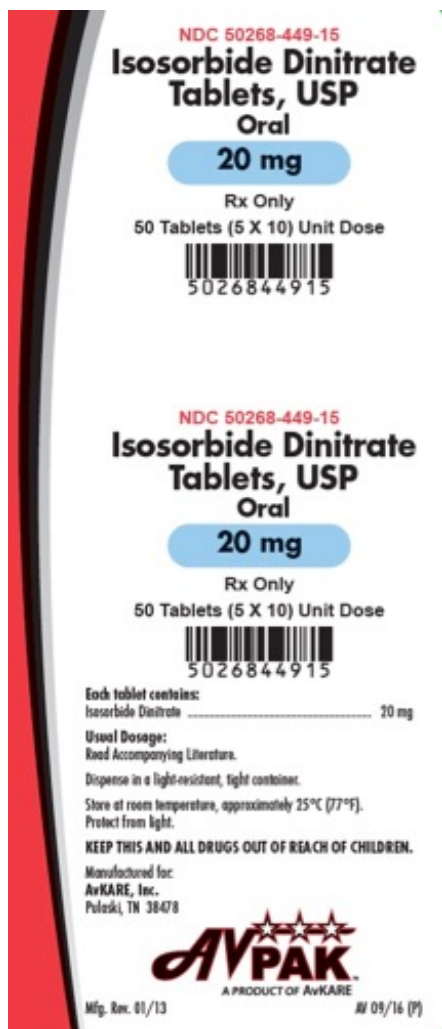
Pulaski, TN 38478

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Mfg. Rev. 01/13

AV 09/16 (P)



ISOSORBIDE DINITRATE

isosorbide dinitrate tablet

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:50268-447(NDC:49884-020)
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
ISOSORBIDE DINITRATE (UNII: IA7306519N) (ISOSORBIDE DINITRATE - UNII:IA7306519N)	ISOSORBIDE DINITRATE	5 mg

Inactive Ingredients

Ingredient Name	Strength
ANHYDROUS LACTOSE (UNII: 3SY5LH9PMK)	

Product Characteristics

Color	white	Score	2 pieces
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Shape	ROUND	Size	8mm
Flavor		Imprint Code	Par;020
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:50268-447-15	50 in 1 BOX, UNIT-DOSE	09/13/2016	
1	NDC:50268-447-11	1 in 1 BLISTER PACK; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA086923	09/13/2016	

ISOSORBIDE DINITRATE

isosorbide dinitrate tablet

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:50268-449(NDC:49884-022)
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
ISOSORBIDE DINITRATE (UNII: IA7306519N) (ISOSORBIDE DINITRATE - UNII:IA7306519N)	ISOSORBIDE DINITRATE	20 mg

Inactive Ingredients

Ingredient Name	Strength
ANHYDROUS LACTOSE (UNII: 3SY5LH9PMK)	

Product Characteristics

Color	green	Score	2 pieces
Shape	ROUND	Size	8mm
Flavor		Imprint Code	Par;022
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:50268-449-15	50 in 1 BOX, UNIT-DOSE	09/13/2016	
1	NDC:50268-449-11	1 in 1 BLISTER PACK; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA087537	09/13/2016	

ISOSORBIDE DINITRATE

isosorbide dinitrate tablet

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:50268-448(NDC:49884-021)
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
ISOSORBIDE DINITRATE (UNII: IA7306519N) (ISOSORBIDE DINITRATE - UNII:IA7306519N)	ISOSORBIDE DINITRATE	10 mg

Inactive Ingredients

Ingredient Name	Strength
ANHYDROUS LACTOSE (UNII: 3SY5LH9PMK)	

Product Characteristics

Color	white	Score	2 pieces
Shape	ROUND	Size	8mm
Flavor		Imprint Code	Par;021
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:50268-448-15	50 in 1 BOX, UNIT-DOSE	06/06/2017	
1	NDC:50268-448-11	1 in 1 BLISTER PACK; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA086925	06/06/2017	

Labeler - AvPAK (832926666)