

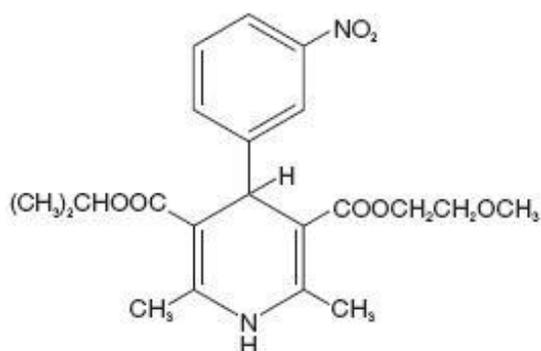
NIMODIPINE- nimodipine capsule, liquid filled
Heritage Pharmaceuticals Inc. d/b/a Avet Pharmaceuticals Inc.

Nimodipine Capsules
For Oral Use
Rx only

DO NOT ADMINISTER NIMODIPINE INTRAVENOUSLY OR BY OTHER PARENTERAL ROUTES. DEATHS AND SERIOUS, LIFE THREATENING ADVERSE EVENTS HAVE OCCURRED WHEN THE CONTENTS OF NIMODIPINE CAPSULES HAVE BEEN INJECTED PARENTERALLY (See WARNINGS and DOSAGE AND ADMINISTRATION).

DESCRIPTION

Nimodipine belongs to the class of pharmacological agents known as calcium channel blockers. Nimodipine is isopropyl 2-methoxyethyl 1,4-dihydro-2,6-dimethyl-4-(*m*-nitrophenyl)-3,5-pyridinedicarboxylate. It has a molecular weight of 418.5 and a molecular formula of C₂₁H₂₆N₂O₇. The structural formula is:



Nimodipine is a yellow crystalline substance, practically insoluble in water.

Nimodipine capsules are formulated as soft gelatin capsules for oral administration. Each liquid filled capsule contains 30 mg of nimodipine in a vehicle of glycerin, peppermint oil and polyethylene glycol. The gelatin shell contains FD&C Yellow No. 6 Aluminum Lake, gelatin, glycerin, iron oxide black, lecithin, medium-chain triglycerides, shellac, sorbitol and titanium dioxide.

CLINICAL PHARMACOLOGY

Mechanism of Action

Nimodipine is a calcium channel blocker. The contractile processes of smooth muscle cells are dependent upon calcium ions, which enter these cells during depolarization as slow ionic transmembrane currents. Nimodipine inhibits calcium ion transfer into these cells and thus inhibits contractions of vascular smooth muscle. In animal experiments, nimodipine had a greater effect on cerebral arteries than on arteries elsewhere in the body perhaps because it is highly lipophilic, allowing it to cross the blood-brain barrier;

concentrations of nimodipine as high as 12.5 ng/mL have been detected in the cerebrospinal fluid of nimodipine-treated subarachnoid hemorrhage (SAH) patients.

The precise mechanism of action of nimodipine in humans is unknown. Although the clinical studies described below demonstrate a favorable effect of nimodipine on the severity of neurological deficits caused by cerebral vasospasm following SAH, there is no arteriographic evidence that the drug either prevents or relieves the spasm of these arteries. However, whether or not the arteriographic methodology utilized was adequate to detect a clinically meaningful effect, if any, on vasospasm is unknown.

Pharmacokinetics and Metabolism

In man, nimodipine is rapidly absorbed after oral administration, and peak concentrations are generally attained within one hour. The terminal elimination half-life is approximately 8 to 9 hours but earlier elimination rates are much more rapid, equivalent to a half-life of 1 to 2 hours; a consequence is the need for frequent (every 4 hours) dosing. There were no signs of accumulation when nimodipine was given three times a day for seven days. Nimodipine is over 95% bound to plasma proteins. The binding was concentration independent over the range of 10 ng/mL to 10 mcg/mL. Nimodipine is eliminated almost exclusively in the form of metabolites and less than 1% is recovered in the urine as unchanged drug. Numerous metabolites, all of which are either inactive or considerably less active than the parent compound, have been identified. The metabolism of nimodipine is mediated by CYP3A4. Because of a high first-pass metabolism, the bioavailability of nimodipine averages 13% after oral administration. The bioavailability is significantly increased in patients with hepatic cirrhosis, with C_{max} approximately double that in normals which necessitates lowering the dose in this group of patients (see **DOSAGE AND ADMINISTRATION**). In a study of 24 healthy male volunteers, administration of nimodipine capsules following a standard breakfast resulted in a 68% lower peak plasma concentration and 38% lower bioavailability relative to dosing under fasted conditions.

In a single parallel-group study involving 24 elderly subjects (aged 59 to 79) and 24 younger subjects (aged 22 to 40), the observed AUC and C_{max} of nimodipine was approximately 2-fold higher in the elderly population compared to the younger study subjects following oral administration (given as a single dose of 30 mg and dosed to steady-state with 30 mg t.i.d. for 6 days). The clinical response to these age-related pharmacokinetic differences, however, was not considered significant. (See

PRECAUTIONS: Geriatric Use.)

Clinical Trials

Nimodipine has been shown, in 4 randomized, double-blind, placebo-controlled trials, to reduce the severity of neurological deficits resulting from vasospasm in patients who have had a recent subarachnoid hemorrhage (SAH). The trials used doses ranging from 20–30 mg to 90 mg every 4 hours, with drug given for 21 days in 3 studies, and for at least 18 days in the other. Three of the four trials followed patients for 3 to 6 months. Three of the trials studied relatively well patients, with all or most patients in Hunt and Hess Grades I to III (essentially free of focal deficits after the initial bleed) the fourth studied much sicker patients, Hunt and Hess Grades III to V. Two studies, one U.S., one French, were similar in design, with relatively unimpaired SAH patients randomized to nimodipine or placebo. In each, a judgment was made as to whether any late-developing deficit was due to spasm or other causes, and the deficits were graded. Both studies showed significantly fewer severe deficits due to spasm in the nimodipine group; the

second (French) study showed fewer spasm-related deficits of all severities. No effect was seen on deficits not related to spasm.

Study	Dose	Grade*		Patients		
				Number Analyzed	Any Deficit Due to Spasm	Numbers with Severe Deficit
U.S.	20 to 30 mg	I to III	Nimodipine	56	13	1
			Placebo	60	16	8**
French	60 mg	I to III	Nimodipine	31	4	2
			Placebo	39	11	10**

* Hunt and Hess Grade

** p=0.03

A third, large, study was performed in the United Kingdom in SAH patients with all grades of severity (but 89% were in Grades I to III). Nimodipine was dosed 60 mg every 4 hours. Outcomes were not defined as spasm related or not but there was a significant reduction in the overall rate of infarction and severely disabling neurological outcome at 3 months:

	Nimodipine	Placebo
Total patients	278	276
Good recovery	199*	169
Moderate disability	24	16
Severe disability	12**	31
Death	43***	60

* p=0.0444 - good and moderate vs severe and dead

** p=0.001 - severe disability

*** p=0.056 - death

A Canadian study entered much sicker patients, (Hunt and Hess Grades III to V), who had a high rate of death and disability, and used a dose of 90 mg every 4 hours, but was otherwise similar to the first two studies. Analysis of delayed ischemic deficits, many of which result from spasm, showed a significant reduction in spasm-related deficits. Among analyzed patients (72 nimodipine, 82 placebo), there were the following outcomes.

	Delayed Ischemic Deficits (DID)		Permanent Deficits	
	Nimodipine	Placebo	Nimodipine	Placebo

	n (%)	n (%)	n (%)	n (%)
DID Spasm Alone	8 (11)*	25 (31)	5 (7)*	22 (27)
DID Spasm Contributing	18 (25)	21 (26)	16 (22)	17 (21)
DID Without Spasm	7 (10)	8 (10)	6 (8)	7 (9)
No DID	39 (54)	28 (34)	45 (63)	36 (44)

* p = 0.001, nimodipine vs placebo

When data were combined for the Canadian and the United Kingdom studies, the treatment difference on success rate (i.e., good recovery) on the Glasgow Outcome Scale was 25.3% (nimodipine) versus 10.9% (placebo) for Hunt and Hess Grades IV or V. The table below demonstrates that nimodipine tends to improve good recovery of SAH patients with poor neurological status post-ictus, while decreasing the numbers with severe disability and vegetative survival.

Glasgow Outcome*	Nimodipine (n=87)	Placebo (n=101)
Good Recovery	22 (25.3%)	11 (10.9%)
Moderate Disability	8 (9.2%)	12 (11.9%)
Severe Disability	6 (6.9%)	15 (14.9%)
Vegetative Survival	4 (4.6%)	9 (8.9%)
Death	47 (54.0%)	54 (53.5%)

* p = 0.045, nimodipine vs placebo

INDICATIONS AND USAGE

Nimodipine is indicated for the improvement of neurological outcome by reducing the incidence and severity of ischemic deficits in patients with subarachnoid hemorrhage from ruptured intracranial berry aneurysms regardless of their post-ictus neurological condition (i.e., Hunt and Hess Grades I to V).

CONTRAINDICATIONS

The concomitant use of nimodipine with strong inhibitors of CYP3A4 such as some macrolide antibiotics (e.g., clarithromycin, telithromycin), some anti-HIV protease inhibitors (e.g., delaviridine, indinavir, nelfinavir, ritonavir, saquinavir), some azole antimycotics (e.g., ketoconazole, itraconazole, voriconazole) and some antidepressants (e.g., nefazadone) is contraindicated because of a risk of significant hypotension (see **PRECAUTIONS, Drug Interactions**).

WARNINGS

DEATH DUE TO INADVERTENT INTRAVENOUS ADMINISTRATION:

DO NOT ADMINISTER NIMODIPINE INTRAVENOUSLY OR BY OTHER PARENTERAL ROUTES. DEATHS AND SERIOUS, LIFE THREATENING ADVERSE EVENTS, INCLUDING CARDIAC ARREST, CARDIOVASCULAR COLLAPSE, HYPOTENSION, AND BRADYCARDIA, HAVE OCCURRED WHEN THE CONTENTS OF NIMODIPINE CAPSULES HAVE BEEN INJECTED PARENTERALLY (SEE DOSAGE AND ADMINISTRATION).

Reduced Efficacy with CYP3A4 Inducers: Concomitant use of strong CYP3A4 inducers (e.g. rifampin, phenobarbital, phenytoin, carbamazepine, St John's wort) and nimodipine should generally be avoided, as nimodipine plasma concentration and efficacy may be very significantly reduced (see **PRECAUTIONS, Drug Interactions**).

Moderate and weak inducers of CYP3A4 may also reduce the efficacy of nimodipine to a lesser extent. Patients on these should be closely monitored for lack of effectiveness, and a nimodipine dosage increase may be required. Moderate and weak CYP3A4 inhibitors include, for example: amprenavir, aprepitant, armodafinil, bosentan, efavirenz, etravirine, echinacea, modafinil, nafcillin, pioglitazone, prednisone and rufinamide.

PRECAUTIONS

General

Blood Pressure: Nimodipine has the hemodynamic effects expected of a calcium channel blocker, although they are generally not marked. However, intravenous administration of the contents of nimodipine capsules has resulted in serious adverse consequences including death, cardiac arrest, cardiovascular collapse, hypotension, and bradycardia. In patients with subarachnoid hemorrhage given nimodipine in clinical studies, about 5% were reported to have had lowering of the blood pressure and about 1% left the study because of this (not all could be attributed to nimodipine). Nevertheless, blood pressure should be carefully monitored during treatment with nimodipine based on its known pharmacology and the known effects of calcium channel blockers. (see **WARNINGS** and **DOSAGE AND ADMINISTRATION**).

Hepatic Disease: The metabolism of nimodipine is decreased in patients with impaired hepatic function. Such patients should have their blood pressure and pulse rate monitored closely and should be given a lower dose (see **DOSAGE AND ADMINISTRATION**).

Intestinal pseudo-obstruction and ileus have been reported rarely in patients treated with nimodipine. A causal relationship has not been established. The condition has responded to conservative management.

Laboratory Test Interactions

None known.

Drug Interactions

Nimodipine is metabolized via the cytochrome P450 3A4 system located both in the intestinal mucosa and in the liver. Drugs that are known to either inhibit or to induce this enzyme system may therefore alter the first pass or the clearance of nimodipine.

In addition, the blood pressure lowering effects of antihypertensives could be enhanced when taken concomitantly with nimodipine.

Inducers of CYP3A4: Nimodipine plasma concentration and efficacy may be significantly reduced when concomitantly administered with strong CYP3A4 inducers. Therefore strong CYP3A4 inducers (e.g. rifampin, carbamazepine, phenobarbital, phenytoin, St. John's Wort) should generally not be administered concomitantly with nimodipine (see **WARNINGS**).

Other moderate and weak inducers of CYP3A4 may also reduce the efficacy of nimodipine, although the magnitude of decrease in nimodipine plasma concentrations is not known. Patients on these should be closely monitored for lack of effectiveness, and a nimodipine dosage increase may be required. Moderate and weak CYP3A4 inducers include: amprenavir, aprepitant, armodafinil, bosentan, efavirenz, etravirine, Echinacea, modafinil, nafcillin, pioglitazone, prednisone and rufinamide.

Inhibitors of CYP3A4: Nimodipine plasma concentration can be significantly increased when concomitantly administered with strong inhibitors of the CYP3A4 system. As a consequence, the blood pressure lowering effect may be increased. Therefore strong CYP3A4 inhibitors should not be coadministered with nimodipine (see **CONTRAINDICATIONS**). Strong CYP3A4 inhibitors include some members of the following classes:

- macrolide antibiotics (e.g., clarithromycin, telithromycin),
- HIV protease inhibitors (e.g., delavirdine, indinavir, nelfinavir, ritonavir, saquinavir),
- azole antimycotics (e.g., ketoconazole, itraconazole, voriconazole),
- antidepressants (e.g. nefazodone)
- grapefruit juice: after intake of grapefruit juice and nimodipine, the blood pressure lowering effect may last for at least 4 days after the last ingestion of grapefruit juice. Ingestion of grapefruit/grapefruit juice is therefore not recommended while taking nimodipine (see **DOSAGE AND ADMINISTRATION**).

Nimodipine plasma concentration can also be increased in the presence of moderate and weak inhibitors of CYP3A4. If nimodipine is concomitantly administered with these drugs, blood pressure should be monitored, and a reduction of the nimodipine dose may be necessary. Moderate and weak CYP3A4 inhibitors include amprenavir, aprepitant, atazanavir, amiodarone, alprozalol, cyclosporine, cimetidine, erythromycin, fluconazole, fluoxetine, isoniazid, oral contraceptives, quinuprestin/dalforpristin, and valproic acid.

Blood pressure lowering drugs: Nimodipine may increase the blood pressure lowering effect of concomitantly administered anti-hypertensives, such as:

- diuretics,
- β -blockers,
- ACE inhibitors,
- A1-antagonists,
- other calcium antagonists,
- α -adrenergic blocking agents,

- PDE5 inhibitors,
- α -methyldopa.

Blood pressure should be carefully monitored, and dose adjustment of the blood pressure lowering drug(s) may be necessary.

Carcinogenesis, Mutagenesis, Impairment of Fertility

In a two-year study, higher incidences of adenocarcinoma of the uterus and Leydig-cell adenoma of the testes were observed in rats given a diet containing 1800 ppm nimodipine (equivalent to 91 to 121 mg/kg/day nimodipine) than in placebo controls. The differences were not statistically significant, however, and the higher rates were well within historical control range for these tumors in the Wistar strain. Nimodipine was found not to be carcinogenic in a 91-week mouse study but the high dose of 1800 ppm nimodipine-in-feed (546 to 774 mg/kg/day) shortened the life expectancy of the animals. Mutagenicity studies, including the Ames, micronucleus and dominant lethal tests were negative.

Nimodipine did not impair the fertility and general reproductive performance of male and female Wistar rats following oral doses of up to 30 mg/kg/day when administered daily for more than 10 weeks in the males and 3 weeks in the females prior to mating and continued to day 7 of pregnancy. This dose in a rat is about 4 times the equivalent clinical dose of 60 mg q4h in a 50 kg patient.

Pregnancy

Nimodipine has been shown to have a teratogenic effect in Himalayan rabbits. Incidences of malformations and stunted fetuses were increased at oral doses of 1 and 10 mg/kg/day administered (by gavage) from day 6 through day 18 of pregnancy but not at 3 mg/kg/day in one of two identical rabbit studies. In the second study an increased incidence of stunted fetuses was seen at 1 mg/kg/day but not at higher doses. Nimodipine was embryotoxic, causing resorption and stunted growth of fetuses, in Long Evans rats at 100 mg/kg/day administered by gavage from day 6 through day 15 of pregnancy. In two other rat studies, doses of 30 mg/kg/day nimodipine administered by gavage from day 16 of gestation and continued until sacrifice (day 20 of pregnancy or day 21 post partum) were associated with higher incidences of skeletal variation, stunted fetuses and stillbirths but no malformations. There are no adequate and well controlled studies in pregnant women to directly assess the effect on human fetuses. Nimodipine should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

Nursing Mothers

Nimodipine and/or its metabolites have been shown to appear in rat milk at concentrations much higher than in maternal plasma. It is not known whether the drug is excreted in human milk. Because many drugs are excreted in human milk, nursing mothers are advised not to breast feed their babies when taking the drug.

Pediatric Use

Safety and effectiveness in children have not been established.

Geriatric Use

Clinical studies of nimodipine 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, dosing in elderly patients should be cautious, reflecting the greater frequency of decreased hepatic, renal or cardiac function, and of concomitant disease or other drug therapy.

ADVERSE REACTIONS

Adverse experiences were reported by 92 of 823 patients with subarachnoid hemorrhage (11.2%) who were given nimodipine. The most frequently reported adverse experience was decreased blood pressure in 4.4% of these patients. Twenty-nine of 479 (6.1%) placebo treated patients also reported adverse experiences. The events reported with a frequency greater than 1% are displayed below by dose.

Sign/Symptom	DOSE					Placebo (n=479)
	0.35 mg/kg (n=82)	30 mg (n=71)	60 mg (n=494)	90 mg (n=172)	120 mg (n=4)	
Decreased Blood Pressure	1 (1.2)	0	19 (3.8)	14 (8.1)	2 (50.0)	6 (1.2)
Abnormal Liver Function Test	1 (1.2)	0	2 (0.4)	1 (0.6)	0	7 (1.5)
Edema	0	0	2 (0.4)	2 (1.2)	0	3 (0.6)
Diarrhea	0	3 (4.2)	0	3 (1.7)	0	3 (0.6)
Rash	2 (2.4)	0	3 (0.6)	2 (1.2)	0	3 (0.6)
Headache	0	1 (1.4)	6 (1.2)	0	0	1 (0.2)
Gastrointestinal Symptoms	2 (2.4)	0	0	2 (1.2)	0	0
Nausea	1 (1.2)	1 (1.4)	6 (1.2)	1 (0.6)	0	0
Dyspnea	1 (1.2)	0	0	0	0	0
EKG Abnormalities	0	1 (1.4)	0	1 (0.6)	0	0
Tachycardia	0	1 (1.4)	0	0	0	0
Bradycardia	0	0	5 (1.0)	1 (0.6)	0	0
Muscle Pain/Cramp	0	1 (1.4)	1 (0.2)	1 (0.6)	0	0
Acne	0	1 (1.4)	0	0	0	0
Depression	0	1 (1.4)	0	0	0	0

There were no other adverse experiences reported by the patients who were given 0.35 mg/kg q4h, 30 mg q4h or 120 mg q4h. Adverse experiences with an incidence rate of less than 1% in the 60 mg q4h dose group were: hepatitis; itching; gastrointestinal hemorrhage; thrombocytopenia; anemia; palpitations; vomiting; flushing; diaphoresis; wheezing; phenytoin toxicity; lightheadedness; dizziness; rebound vasospasm; jaundice;

hypertension; hematoma.

Adverse experiences with an incidence rate less than 1% in the 90 mg q4h dose group were: itching, gastrointestinal hemorrhage; thrombocytopenia; neurological deterioration; vomiting; diaphoresis; congestive heart failure; hyponatremia; decreasing platelet count; disseminated intravascular coagulation; deep vein thrombosis.

As can be seen from the table, side effects that appear related to nimodipine use based on increased incidence with higher dose or a higher rate compared to placebo control, included decreased blood pressure, edema and headaches which are known pharmacologic actions of calcium channel blockers. It must be noted, however, that SAH is frequently accompanied by alterations in consciousness which lead to an under reporting of adverse experiences. Patients who received nimodipine in clinical trials for other indications reported flushing (2.1%), headache (4.1%) and fluid retention (0.3%), typical responses to calcium channel blockers. As a calcium channel blocker, nimodipine may have the potential to exacerbate heart failure in susceptible patients or to interfere with A-V conduction, but these events were not observed.

No clinically significant effects on hematologic factors, renal or hepatic function or carbohydrate metabolism have been causally associated with oral nimodipine. Isolated cases of non-fasting elevated serum glucose levels (0.8%), elevated LDH levels (0.4%), decreased platelet counts (0.3%), elevated alkaline phosphatase levels (0.2%) and elevated SGPT levels (0.2%) have been reported rarely.

To report SUSPECTED ADVERSE REACTIONS, contact Avet Pharmaceuticals Inc. at 1-866-901-DRUG (3784) or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG ABUSE AND DEPENDENCE

There have been no reported instances of drug abuse or dependence with nimodipine.

OVERDOSAGE

There have been no reports of overdosage from the oral administration of nimodipine. Symptoms of overdosage would be expected to be related to cardiovascular effects such as excessive peripheral vasodilation with marked systemic hypotension. Clinically significant hypotension due to nimodipine overdosage may require active cardiovascular support with pressor agents. Specific treatments for calcium channel blocker overdose should also be given promptly. Since nimodipine is highly protein-bound, dialysis is not likely to be of benefit.

DOSAGE AND ADMINISTRATION

DO NOT ADMINISTER NIMODIPINE CAPSULES INTRAVENOUSLY OR BY OTHER PARENTERAL ROUTES (see WARNINGS). If nimodipine is inadvertently administered intravenously, clinically significant hypotension may require cardiovascular support with pressor agents. Specific treatments for calcium channel blocker overdose should also be given promptly.

Nimodipine is given orally in the form of soft gelatin 30 mg capsules for subarachnoid

hemorrhage.

The recommended oral dose is 60 mg (two 30 mg capsules) every 4 hours for 21 consecutive days. In general, the capsules should be swallowed whole with a little liquid, preferably not less than one hour before or two hours after meals. Grapefruit juice is to be avoided (see **PRECAUTIONS, Drug Interactions**). Oral nimodipine therapy should commence as soon as possible within 96 hours of the onset of subarachnoid hemorrhage.

If the capsule cannot be swallowed, e.g., at the time of surgery, or if the patient is unconscious, a hole should be made in both ends of the capsule with an 18 gauge needle, and the contents of the capsule extracted into a syringe. A parenteral syringe can be used to extract the liquid inside the capsule, but the liquid should always be transferred to a syringe that cannot accept a needle and that is designed for administration orally or via a naso-gastric tube or PEG. To help minimize administration errors, it is recommended that the syringe used for administration be labeled "Not for IV Use". The contents should then be emptied into the patient's *in situ* naso-gastric tube and washed down the tube with 30 mL of normal saline (0.9%).

Severely disturbed liver function, particularly liver cirrhosis, may result in an increased bioavailability of nimodipine due to a decreased first pass capacity and a reduced metabolic clearance. The reduction in blood pressure and other adverse effects may be more pronounced in these patients. Dosage should be reduced to one 30 mg capsule every 4 hours with close monitoring of blood pressure and heart rate; if necessary, discontinuation of the treatment should be considered.

Strong inhibitors of CYP3A4 should not be administered concomitantly with nimodipine (see **CONTRAINDICATIONS**). Strong inducers of CYP3A4 should generally not be administered with nimodipine (see **WARNINGS**). Patients on moderate and weak inducers of CYP3A4 should be closely monitored for lack of effectiveness, and a nimodipine dose increase may be required. Patients on moderate and weak CYP3A4 inhibitors may require a nimodipine dose reduction in case of hypotension (see **PRECAUTIONS, Drug Interactions**).

HOW SUPPLIED

Nimodipine Capsules 30 mg are available as orange, opaque, oblong shape, soft gelatin capsules, imprinted "**HP 512**" with black ink. They are supplied as follows:

	Strength	NDC Code
Unit Dose Package of 30: (3 blister cards; each containing 10 capsules)	30 mg	23155-512-30
Unit Dose Package of 100: (10 blister cards; each containing 10 capsules)	30 mg	23155-512-00

The capsules should be stored in the manufacturer's original package.

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

Capsules should be protected from light and freezing.

Distributed by:

Avet Pharmaceuticals Inc.

East Brunswick, NJ 08816

1.866.901.DRUG (3784)



51U000000272US03

Revised: 06/2024

PACKAGE LABEL.PRINCIPAL DISPLAY PANEL

NDC 23155-512-30

Nimodipine Capsules

30 mg

Contents are Packaged Child-Resistant.

FOR ORAL USE ONLY

30 Unit-Dose Capsules

3 Blister Cards of 10 Capsules

Rx only



NDC 23155-512-00

Nimodipine Capsules

30 mg

FOR INSTITUTIONAL USE ONLY

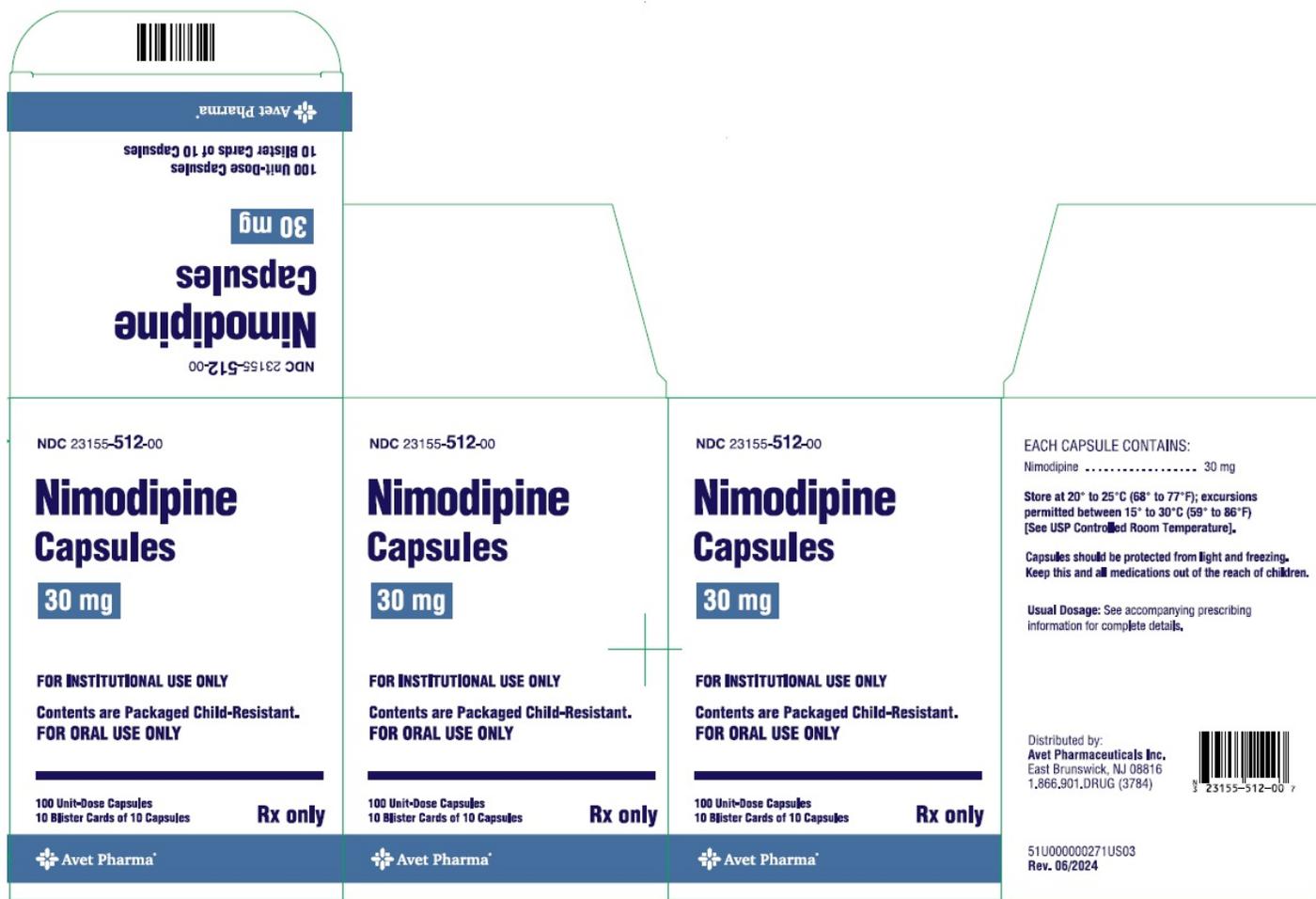
Contents are Packaged Child-Resistant.

FOR ORAL USE ONLY

100 Unit-Dose Capsules

10 Blister Cards of 10 Capsules

Rx only



NIMODIPINE

nimodipine capsule, liquid filled

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:23155-512
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
NIMODIPINE (UNII: 57WA9QZ5WH) (NIMODIPINE - UNII:57WA9QZ5WH)	NIMODIPINE	30 mg

Inactive Ingredients

Ingredient Name	Strength
GELATIN (UNII: 2G86QN327L)	
PEPPERMINT OIL (UNII: AV092KU4JH)	
GLYCERIN (UNII: PDC6A3C0OX)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
SORBITOL (UNII: 506T60A25R)	
SHELLAC (UNII: 46N107B71O)	
FERROSO FERRIC OXIDE (UNII: XM0M87F357)	

MEDIUM-CHAIN TRIGLYCERIDES (UNII: C9H2L21V7U)	
FD&C YELLOW NO. 6 ALUMINUM LAKE (UNII: GYP6Z2JR6Q)	
POLYETHYLENE GLYCOL 400 (UNII: B697894SGQ)	
SOYBEAN LECITHIN (UNII: 1DI56QDM62)	

Product Characteristics			
Color	ORANGE	Score	no score
Shape	CAPSULE	Size	25mm
Flavor		Imprint Code	HP512
Contains			

Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:23155-512-30	3 in 1 CARTON	11/07/2017	
1		10 in 1 BLISTER PACK; Type 0: Not a Combination Product		
2	NDC:23155-512-00	10 in 1 CARTON	11/07/2017	
2		10 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	ANDA077811	11/07/2017	

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

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