

**Isradipine Cas No. : 75695-93-1**

Isradipine comes as a regular capsule and an extended-release (long-acting) tablet to take by mouth. The capsule is usually taken two times a day, while the tablet is usually taken once a day. The tablet should be swallowed whole. Do not chew, divide, or crush the tablet.

Active Pharmaceuticals Ingredients Manufacturers



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**Taj Pharmaceuticals Ltd.****Isradipine****CAS No. : 100286-90-6****Systematic (IUPAC) name**

3-methyl 5-propan-2-yl 4-(2,1,3-benzoxadiazol-4-yl)-2,6-dimethyl-1,4-dihydropyridine-3,5-dicarboxylate

**Identifiers**Molecular Formula C<sub>19</sub>H<sub>21</sub>N<sub>3</sub>O<sub>5</sub>

Molecular Weight 371.39

CAS Registry Number 75695-93-1

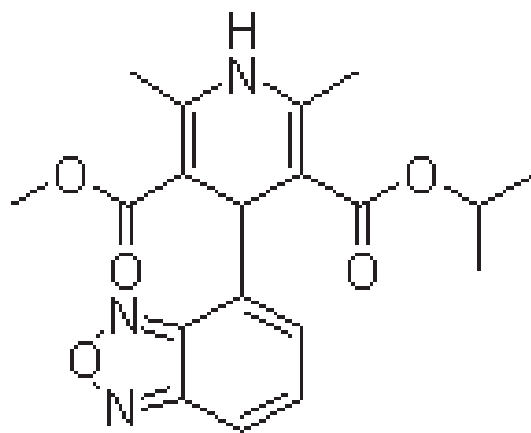
ATC code C08CA03

PubChem 3784

DrugBank APRD00298

**Chemical data**Formula C<sub>19</sub>H<sub>21</sub>N<sub>3</sub>O<sub>5</sub>

Mol. mass 371.387 g/mol

**Pharmacokinetic data**

Bioavailability ?

Protein binding 95%

Metabolism ?

Half life 8 hours

Excretion ?

**DOSAGE**

Isradipine comes as a regular capsule and an extended-release (long-acting) tablet to take by mouth. The capsule is usually taken two times a day, while the tablet is usually taken once a day. The tablet should be swallowed whole. Do not chew, divide, or crush the tablet. Follow the directions on your prescription label carefully, and ask your doctor or pharmacist to explain any part you do not understand. Take isradipine exactly as directed. Do not take more or less of it or take it more often than prescribed by your doctor.

Isradipine controls high blood pressure but does not cure it. Continue to take isradipine even if you feel well. Do not stop taking isradipine without talking to your doctor.

\* Initial dose: 2.5 mg PO two times daily for immediate release product

\* Maximum dose: 10 mg PO two times daily

**SIDE EFFECTS**

- \* Headache
- \* Peripheral edema
- \* Flushing
- \* Reflex tachycardia (short acting agents have higher incidence)
- \* Rash
- \* Dizziness
- \* Hypotension



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**Isradipine**

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As well as their useful effects all medicines can cause unwanted side effects. Side effects of isradipine usually go away a few days after starting treatment. Speak to your doctor or pharmacist if any of the following side effects continue or become troublesome:

headache, redness of the face, dizziness, palpitations, fast or fluttery heartbeat, swollen legs and ankles

rarely skin rash, weight gain, tiredness, tummy pain.

If you experience any other worrying or troublesome side effects, which you think may be due to this medicine, discuss them with your doctor

### PRECAUTIONS

Before taking isradipine,

- \* tell your doctor and pharmacist if you are allergic to isradipine or any other drugs.
- \* tell your doctor and pharmacist what prescription and nonprescription medications you are taking, especially cimetidine (Tagamet), fentanyl (Duragesic), heart and blood pressure medications such as beta-blockers and diuretics ('water pills'), medications to treat glaucoma (increased pressure in the eye), ranitidine (Zantac), rifampin (Rifadin, Rimactane), and vitamins.
- \* tell your doctor if you have or have ever had heart, liver, or kidney disease or a history of gastrointestinal obstruction (strictures).
- \* tell your doctor if you are pregnant, plan to become pregnant, or are breast-feeding. If you become pregnant while taking isradipine, call your doctor.
- \* if you are having surgery, including dental surgery, tell your doctor or dentist that you are taking isradipine.

Before taking isradipine make sure your doctor knows:

- \* if you are pregnant, trying for a baby or breast-feeding
- \* if you suffer from liver or kidney problems
- \* if you have had a heart attack or suffer from any other heart problems
- \* if you suffer from diabetes
- \* if you have ever had an allergic reaction to this or any other medicine.
- \* if you are taking any other medicines, including those available to buy without a prescription, herbal or complementary medicines.

### INTERACTION

Drug interactions (not inclusive)

- \* Grapefruit juice with certain dihydropyridines
- \* All medications that can lower blood pressure
- \* Fentanyl has been reported to cause severe hypotension when given with certain calcium channel blockers
- \* This reaction may occur with all calcium channel blockers, but no data available
- \* H<sub>2</sub>-receptor antagonists may increase the bioavailability of many of the dihydropyridine calcium channel blockers

(isradipine) has been safely coadministered with nitroglycerin.

Hydrochlorothiazide: A study in normal healthy volunteers has shown that concomitant administration of DynaCirc® (isradipine) and hydrochlorothiazide does not result in altered



pharmacokinetics of either drug. In a study in hypertensive patients, addition of isradipine to existing hydrochlorothiazide therapy did not result in any unexpected adverse effects, and isradipine had an additional antihypertensive effect.

Propranolol: In a single dose study in normal volunteers, coadministration of propranolol had a small effect on the rate but no effect on the extent of isradipine bioavailability. Significant increases in AUC (27%) and C<sub>max</sub> (58%) and decreases in t<sub>max</sub> (23%) of propranolol were noted in this study.

### DRUG DESCRIPTION

This belongs to the group of medicines known as calcium channel blockers.

Isradipine is used to treat hypertension (high blood pressure).

Isradipine slows the movement of calcium through cells, which has two results: (1) it decreases the speed at which the heart beats, and (2) has a widening effect on blood vessels. This combination allows blood to circulate more freely around the body, lowering blood pressure and allowing the heart to work more efficiently.

Isradipine is available in tablet form, strength 2.5mg.

Isradipine, the most potent calcium-channel blocking agent of the dihydropyridine class, is similar to nifedipine, amlodipine, and felodipine. Isradipine used to treat hypertension. For the management of hypertension. It may be used alone or concurrently with thiazide-type diuretics

Note /Government Notification: These chemicals are designated as those that are used in the manufacture of the controlled substances and are important to the manufacture of the substances. For any (Control Substance) products Import and Export \*\*\* subjected to your country government laws /control substance ACT.

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The Controlled Substances Act (CSA) was enacted into law by the Congress of the United States as Title II of the Comprehensive Drug Abuse Prevention and Control Act of 1970.[1] The CSA is the federal U.S. drug policy under which the manufacture, importation, possession, use and distribution of certain substances is regulated. The Act also served as the national implementing legislation for the Single Convention on Narcotic Drugs

This document plus the full buyer/ prescribing information, prepared for health professionals can be found at:

<http://www.tajapi.com>

or by contacting the sponsor, Taj Pharmaceuticals Limited., at:

91 022 30601000.

This leaflet was prepared by  
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