

Isradipine

Catalog No: tcsc2201



Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

75695-93-1

Formula:

$C_{19}H_{21}N_3O_5$

Pathway:

Membrane Transporter/Ion Channel

Target:

Calcium Channel

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

PN 200-110

Observed Molecular Weight:

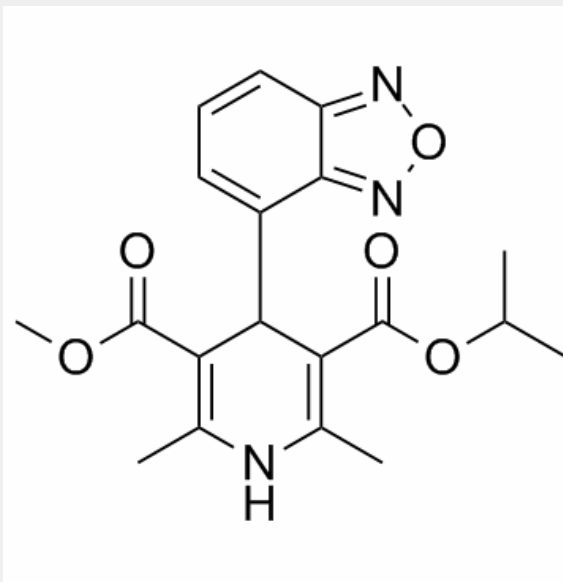
371.39

Product Description

Isradipine(Dynacirc) is a calcium channel blocker with an IC₅₀ of 34±8 μM.

Target: Calcium Channel

Isradipine(Dynacirc) is a calcium channel blocker with an IC₅₀ of 34±8 μM. It is usually prescribed for the treatment of high blood pressure in order to reduce the risk of stroke and heart attack[1]. Isradipine belongs to the dihydropyridine (DHP) class of calcium channel blockers (CCBs), the most widely used class of CCBs. It is structurally related to felodipine, nifedipine, and nimodipine and is the most potent calcium-channel blocking agent of the DHP class. Isradipine binds to calcium channels with high affinity and specificity and inhibits calcium flux into cardiac and arterial smooth muscle cells. It exhibits greater selectivity towards arterial smooth muscle cells owing to alternative splicing of the alpha-1 subunit of the channel and increased prevalence of inactive channels in smooth muscle cells. Isradipine may be used to treat mild to moderate essential hypertension [2].



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