



LKT Laboratories, Inc.

Isradipine

Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lctlabs.com
Web: lctlabs.com

Product Information

Product ID I7468

CAS No. 75695-93-1

Chemical Name

Synonym

Formula $C_{19}H_{21}N_3O_5$

Formula Wt. 371.39

Melting Point

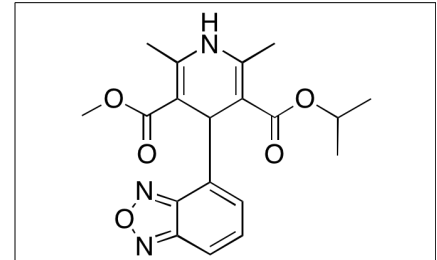
Purity $\geq 98\%$

Solubility DMSO 200mM
Ethanol 200mM
Water Insoluble

Store Temp Ambient

Ship Temp Ambient

Description Isradipine is a second-generation dihydropyridine calcium channel blocker. It has been found to protect against stroke and brain ischemia in rat models of hypertension. Research has also shown that isradipine influences amyloid-beta production in addition to components of the cav1.2-ptau-autophagy pathway and thereby may be useful in the treatment of Alzheimer's disease. Furthermore, it has been found to protect striatal dopaminergic terminals and parent substantia nigra pars compacta cell bodies against intrastriatal injection of the toxin 6-hydroxydopamine, and so may also be an effective treatment of Parkinson's disease.



Bulk quantities available upon request

Product ID	Size
I7468	5 mg
I7468	25 mg
I7468	50 mg

References Lee HA, Hyun SA, Park SG, et al. Comparison of electrophysiological effects of calcium channel blockers on cardiac repolarization. *Korean J Physiol Pharmacol.* 2016 Jan; 20(1):119-127. PMID: 26807031.

Anekonda TS, Quinn JF. Calcium channel blocking as a therapeutic strategy for Alzheimer's disease: the case for isradipine. *Biochim Biophys Acta.* 2011 Dec; 1812(12): 1584-1590. PMID: 21925266.

Ilijic E, Guzman JN, Surmeier DJ. The L-type channel antagonist isradipine is neuroprotective in a mouse model of Parkinson's disease. *Neurobiol Dis.* 2011 Aug; 43(2): 364-371. PMID: 21515375.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.