



LKT Laboratories, Inc.

Nisoldipine

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Product Information

Product ID N3474

CAS No. 63675-72-9

Chemical Name

Synonym

Formula $C_{20}H_{24}N_2O_6$

Formula Wt. 388.42

Melting Point

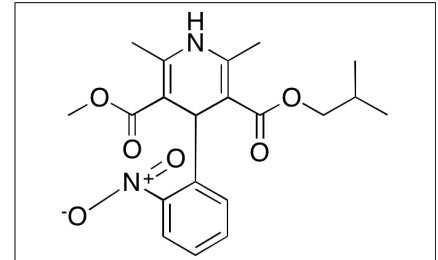
Purity $\geq 98\%$

Solubility Soluble in DMSO to 100
mM and in ethanol to 100
mM

Store Temp 4° C

Ship Temp Ambient

Description Nisoldipine is an L-type Ca^{2+} channel blocker which with long-term treatment can prevent the development of hypertension and cardiac hypertrophy in young spontaneously hypertensive rats. It is a dihydropyridine analog that acts as an activator of the human pregnane X receptor, which in turn mediates activation of gene sets involved in the metabolism of xenobiotics.



Bulk quantities available upon request

Product ID	Size
N3474	10 mg
N3474	50 mg

References Missan S, Zhabyeyev P, Dyachok O, et al. Block of cardiac delayed-rectifier and inward-rectifier K^{+} currents by nisoldipine. *Br J Pharmacol.* 2003 Nov; 140(5): 863-870. PMID: 14530219.

Stasch J, Kazda S, Hirth C, et al. Role of nisoldipine on blood pressure, cardiac hypertrophy, and atrial natriuretic peptides in spontaneously hypertensive rats. *Hypertension.* 1987 Sep; 10(3): 303-307. PMID: 2957322.

Pan Y, Li L, Kim G, et al. Identification and Validation of Novel Human Pregnane X Receptor Activators among Prescribed Drugs via Ligand-Based Virtual Screening. *Drug Metab Dispos.* 2011 Feb; 39(2): 337-344. PMID: 21068194.

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