



LKT Laboratories, Inc.

## Nisoldipine

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### Product Information

**Product ID** N3474

**CAS No.** 63675-72-9

**Chemical Name** 3-O-methyl 5-O-(2-methylpropyl) 2,6-dimethyl-4-(2-nitrophenyl)-1,4-dihydropyridine-3,5-dicarboxylate

**Synonym** Sular, Nisocor, Zadipina

**Formula** C<sub>20</sub>H<sub>24</sub>N<sub>2</sub>O<sub>6</sub>

**Formula Wt.** 388.42

**Melting Point**

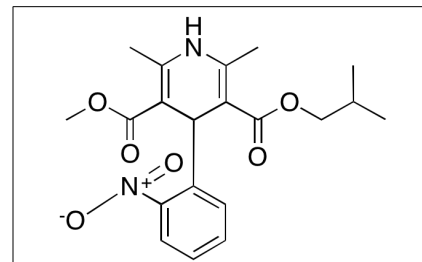
**Purity** ≥98%

**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<sup>2+</sup> 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.



### Pricing and Availability

**Bulk quantities available upon request**

Product ID	Size	List Price
N3474	10 mg	\$55.00
N3474	50 mg	\$75.00
N3474	250 mg	\$98.00
N3474	1 g	\$145.00

**References** Missan S, Zhabyeyev P, Dyachok O, et al. Block of cardiac delayed-rectifier and inward-rectifier K<sup>+</sup> 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.