



LKT Laboratories, Inc.

Nifedipine

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Product Information

Product ID N3228

CAS No. 21829-25-4

Chemical Name 1,4-Dihydro-2,6-dimethyl-4-(2-nitrophenyl)-3,5-pyridinedicarboxylic acid dimethyl ester

Synonym Adalat, Anifed, Aprical, Cordipin, Corotrend, Fenihidine, Nifedicator, Nifensar, Orix, Procardia, Sepamit, Zenusin

Formula C₁₇H₁₈N₂O₆

Formula Wt. 346.33

Melting Point 172-174 °C

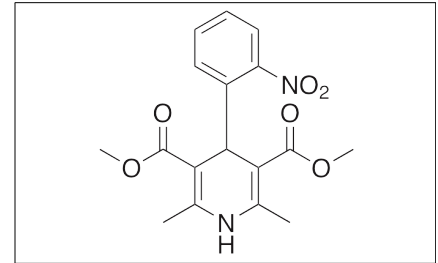
Purity ≥98%

Solubility Soluble in DMSO, acetone (100 mg/mL) or ethanol. Insoluble in water.

Store Temp Ambient

Ship Temp Ambient

Description Nifedipine is a dihydropyridine that acts as an antagonist at L-type Ca²⁺ channels. Nifedipine exhibits antihypertensive, anti-anginal, cardioprotective, tocolytic, and analgesic activities. This compound is clinically used in the treatment of angina and to prevent preterm labor in pregnant females. Additionally, nifedipine alters pain thresholds in the tail withdrawal electric stimulation test.



Bulk quantities available upon request

Product ID	Size
N3228	1 g
N3228	5 g
N3228	25 g

References Gáspár R, Hajagos-Tóth J. Calcium channel blockers as tocolytics: principles of their actions, adverse effects and therapeutic combinations. *Pharmaceuticals (Basel)*. 2013 May 23;6(6):689-99. PMID: 24276256.

Martín MI, del Val VL, Colado MI, et al. Behavioral and analgesic effects induced by administration of nifedipine and nimodipine. *Pharmacol Biochem Behav*. 1996 Sep;55(1):93-8. PMID: 8870043.

Zsotér TT, Church JG. Calcium antagonists. Pharmacodynamic effects and mechanism of action. *Drugs*. 1983 Feb;25(2):93-112. PMID: 6131809.

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