



LKT Laboratories, Inc.

Nimodipine

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Product Information

Product ID N3448

CAS No. 66085-59-4

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

Synonym Periplum, Nimotop

Formula C₂₁H₂₆N₂O₇

Formula Wt. 418.44

Melting Point 125° C

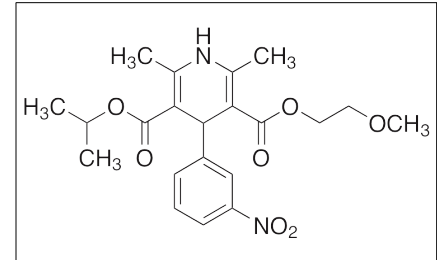
Purity ≥98%

Solubility Soluble in methanol or DMSO. Insoluble in water.

Store Temp ambient

Ship Temp Ambient

Description Nimodipine is an antagonist at L-type Ca²⁺ channels that exhibits antihypertensive, neuroprotective, neuromodulatory, cognition enhancing, and anti-inflammatory activities. In animal models of subarachnoid hemorrhage, nimodipine prevents cerebral ischemia and vasospasm. Nimodipine also inhibits methylmercury-induced behavioral neurotoxicity in vivo. In animal models of Alzheimer's disease, nimodipine inhibits amyloid-B (AB)-stimulated release of IL-1B and resulting neurotoxicity. This compound also inhibits neurological symptoms of drug-induced withdrawal, suppressing anxiety, depression, and memory impairment.



Bulk quantities available upon request

Product ID **Size**

N3448 500 mg

N3448 1 g

N3448 5 g

References Bia A GY, Polak P, Michalak A, et al. Influence of calcium channel antagonists on nonsomatic signs of nicotine and d-amphetamine withdrawal in mice. *Pharmacol Rep.* 2014 Apr;66(2):212-22. PMID: 24911072.

Bailey JM, Hutsell BA, Newland MC. Dietary nimodipine delays the onset of methylmercury neurotoxicity in mice. *Neurotoxicology.* 2013 Jul;37:108-17. PMID: 23583802.

Sanz JM, Chiozzi P, Colaianna M, et al. Nimodipine inhibits IL-1B release stimulated by amyloid B from microglia. *Br J Pharmacol.* 2012 Dec;167(8):1702-11. PMID: 22831460.

Sharma N, Cho DH, Kim SY, et al. Magnesium sulfate suppresses L-type calcium currents on the basilar artery smooth muscle cells in rabbits. *Neurol Res.* 2012 Apr;34(3):291-6. PMID: 22450340.

Janjua N, Mayer SA. Cerebral vasospasm after subarachnoid hemorrhage. *Curr Opin Crit Care.* 2003 Apr;9(2):113-9. PMID: 12657973.

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