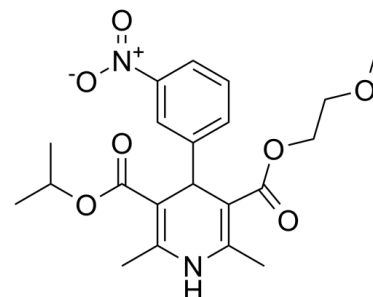


Data Sheet

Product Name:	Nimodipine
Cat. No.:	CS-2253
CAS No.:	66085-59-4
Molecular Formula:	C ₂₁ H ₂₆ N ₂ O ₇
Molecular Weight:	418.44
Target:	Autophagy; Calcium Channel
Pathway:	Autophagy; Membrane Transporter/Ion Channel; Neuronal Signaling
Solubility:	DMSO : ≥ 300 mg/mL (716.95 mM)



BIOLOGICAL ACTIVITY:

Nimodipine(Nimotop) is a dihydropyridine derivative and an analogue of the calcium channel blocker nifedipine, with antihypertensive activity.Nimodipine decreases intracellular free Ca²⁺,Beclin-1 and autophagy. Target: Calcium Channel Nimodipine is main use is in the prevention of cerebral vasospasm and resultant ischemia, a complication of subarachnoid hemorrhage (a form of cerebral bleed), specifically from ruptured intracranial berry aneurysms irrespective of the patient's post-ictus neurological condition. Its administration begins within 4 days of a subarachnoid hemorrhage and is continued for three weeks. If blood pressure drops by over 5%, dosage is adjusted. There is still controversy regarding the use of intravenous nimodipine on a routine basis [1, 2].

References:

- [1]. Janjua, N. and S.A. Mayer, Cerebral vasospasm after subarachnoid hemorrhage. Curr Opin Crit Care, 2003. 9(2): p. 113-9.
- [2]. Allen, G.S., et al., Cerebral arterial spasm--a controlled trial of nimodipine in patients with subarachnoid hemorrhage. N Engl J Med, 1983. 308(11): p. 619-24.

CAIndexNames:

3,5-Pyridinedicarboxylic acid, 1,4-dihydro-2,6-dimethyl-4-(3-nitrophenyl)-, 3-(2-methoxyethyl) 5-(1-methylethyl) ester

SMILES:

O=C(C1=C(C)NC(C)=C(C(OC(C)C)=O)C1C2=CC=CC([N+])([O-])=O)=C2)OCCOC

Caution: Product has not been fully validated for medical applications. For research use only.

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