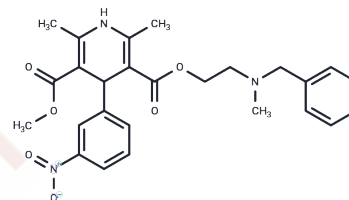


Nicardipine

Chemical Properties

CAS No. : 55985-32-5
 Formula: C₂₆H₂₉N₃O₆
 Molecular Weight: 479.52
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	Nicardipine (Cardene), a calcium channel blockers belonging to the dihydropyridine class, is a drug used to treat angina and high blood pressure.
Targets(IC50)	Calcium Channel

Solubility Information

Solubility	H ₂ O: Insoluble, DMSO: 250 mg/mL (521.35 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% (20% SBE-β-CD in Saline): < 10 mg/mL (20.85 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% Saline: < 10 mg/mL (20.85 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% Corn oil: < 10 mg/mL (20.85 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: < 10 mg/mL (20.85 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0854 mL	10.4271 mL	20.8542 mL
5 mM	0.4171 mL	2.0854 mL	4.1708 mL
10 mM	0.2085 mL	1.0427 mL	2.0854 mL
50 mM	0.0417 mL	0.2085 mL	0.4171 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

R Stamatiou, et al. The dihydropyridine calcium antagonist nifedipine reduces aortic smooth muscle cell viability, proliferation and migration. *Cardiovascular Research*, 2018 Apr,114(1):S43.

Charnet P, et al. Electrophysiological analysis of the action of nifedipine and nifedipine on myocardial fibers. *Fundam Clin Pharmacol*. 1987;1(6):413-31.

Sherrin H. Baky. Nicardipine Hydrochloride.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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