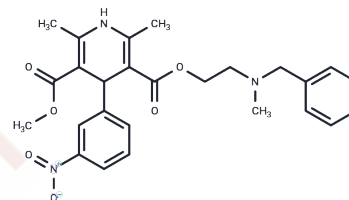


## Nicardipine

## Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 55985-32-5  |
| Formula:          | C <sub>26</sub> H <sub>29</sub> N <sub>3</sub> O <sub>6</sub>   |
| Molecular Weight: | 479.52  |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br>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 <sub>2</sub> O: Insoluble,<br>DMSO: 250 mg/mL (521.35 mM),Sonication is recommended.<br>( $< 1$ mg/ml refers to the product slightly soluble or insoluble)   |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.17 mM),Sonication is recommended.<br><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**

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481