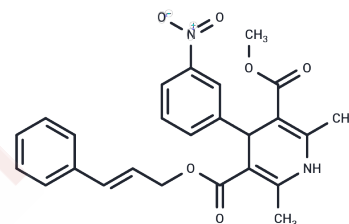


Pranidipine

Chemical Properties

CAS No. :	99522-79-9
Formula:	C ₂₅ H ₂₄ N ₂ O ₆
Molecular Weight:	448.47
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	Pranidipine (OPC-13340) is a novel, long-acting 1,4-dihydropyridine calcium channel blocker with antihypertensive activity. It enhances acetylcholine-induced relaxation in the presence of endothelium and nitroglycerin-induced relaxation in the absence of endothelium.
Targets(IC50)	Calcium Channel
In vivo	Pranidipine enhances cyclic GMP-dependent nitric oxide-induced relaxation of rat aorta.

Solubility Information

Solubility	DMSO: 270 mg/mL (602.05 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (11.15 mM), Sonication is recommended. <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	2.2298 mL	11.149 mL	22.298 mL
5 mM	0.446 mL	2.2298 mL	4.4596 mL
10 mM	0.223 mL	1.1149 mL	2.2298 mL
50 mM	0.0446 mL	0.223 mL	0.446 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

Nakayama N, et al. Antihypertensive activity of OPC-13340, a new potent and long-acting dihydropyridine calcium antagonist, in rats. *J Cardiovasc Pharmacol.* 1990 May;15(5):836-44.

Toyoki Mori, Hiromichi Takase, et al. Prandipine, a 1,4-Dihydropyridine Calcium Channel Blocker that Enhances Nitric Oxide-Induced Vascular Relaxation. *Cardiovasc Drug Rev Spring 2001;19(1):1-8.*

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