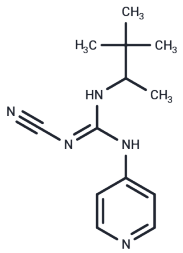
Data Sheet (Cat.No.T12478L)

TargetMol

Pinacidil

Chemical Properties



CAS No. : 60560-33-0

Formula: C13H19N5

Molecular Weight: 245.32

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	Pinacidil (P 1134) is a guanidine that opens potassium channels and directly dilates peripheral blood vessels in small arteries, lowering blood pressure and peripheral resistance and producing fluid retention.
Targets(IC50)	Potassium Channel

Solubility Information

Solubility	DMSO: 100 mg/mL (407.63 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: 4 mg/mL (16.31 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0763 mL	20.3815 mL	40.7631 mL
5 mM	0.8153 mL	4.0763 mL	8.1526 mL
10 mM	0.4076 mL	2.0382 mL	4.0763 mL
50 mM	0.0815 mL	0.4076 mL	0.8153 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

Friedel HA, Brogden RN. Pinacidil. A review of its pharmacodynamic and pharmacokinetic properties, and therapeutic potential in the treatment of hypertension. Drugs. 1990 Jun;39(6):929-67. Review. PubMed PMID: 2196168.

Ahnfelt-Rønne I. Pinacidil. Preclinical investigations. Drugs. 1988;36 Suppl 7:4-9. Review. PubMed PMID: 3076134.

Cohen ML, Kurz KD. Pinacidil-induced vascular relaxation: comparison to other vasodilators and to classical mechanisms of vasodilation. J Cardiovasc Pharmacol. 1988;12 Suppl 2:S5-9. PubMed PMID: 2466179.

Zushida K, Onodera K, Kamei J. Effect of diabetes on pinacidil-induced antinociception in mice. Eur J Pharmacol. 2002 Oct 25;453(2-3):209-15. PubMed PMID: 12398906.

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