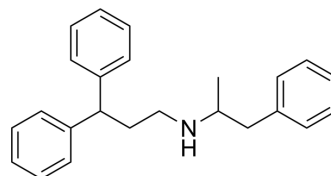


Prenylamine

Cat. No.:	HY-A0257									
CAS No.:	390-64-7									
Molecular Formula:	C ₂₄ H ₂₇ N									
Molecular Weight:	329.48									
Target:	Calcium Channel									
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling									
Storage:	<table border="0"> <tr> <td>Pure form</td> <td>-20°C</td> <td>3 years</td> </tr> <tr> <td>In solvent</td> <td>-80°C</td> <td>6 months</td> </tr> <tr> <td></td> <td>-20°C</td> <td>1 month</td> </tr> </table>	Pure form	-20°C	3 years	In solvent	-80°C	6 months		-20°C	1 month
Pure form	-20°C	3 years								
In solvent	-80°C	6 months								
	-20°C	1 month								



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (303.51 mM; Need ultrasonic)
 chloroform : 100 mg/mL (303.51 mM; Need ultrasonic)
 Methanol : 100 mg/mL (303.51 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	3.0351 mL	15.1754 mL	30.3509 mL
5 mM	0.6070 mL	3.0351 mL	6.0702 mL
10 mM	0.3035 mL	1.5175 mL	3.0351 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.5 mg/mL (7.59 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: 2.5 mg/mL (7.59 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

Prenylamine is a calcium channel blocker of the amphetamine chemical class. Prenylamine can be used as a vasodilator and can be used for the research of angina pectoris^[1].

REFERENCES

- [1]. Nielsen KC, et al. Control of ventricular fibrillation during induced hypothermia in cats after differential depletion of cardiac catecholamine stores with prenylamine (Segontin). Circ Res. 1967 Jul;21(1):45-58.

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

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