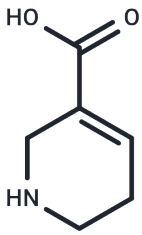
Data Sheet (Cat.No.T7557)

TargetMol

Guvacine hydrochloride

Chemical Properties



CAS No. : 6027-91-4

Formula: C6H10ClNO2

Molecular Weight: 163.602

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	Guvacine hydrochloride is an inhibits of GABA uptake (IC50 : 10 μM)
Targets(IC50)	GABA Receptor
In vivo	In vivo, guvacine, at doses ranging from 50-100 mg/kg, decreases spontaneous activity in mice.?Administration of guvacine also decreases tail flick reaction time in a rat model of morphine analgesia[1].

Solubility Information

Solubility	DMSO: Slightly soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.1125 mL	30.5623 mL	61.1247 mL
5 mM	1.2225 mL	6.1125 mL	12.2249 mL
10 mM	0.6112 mL	3.0562 mL	6.1125 mL
50 mM	0.1222 mL	0.6112 mL	1.2225 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

Johnston G A R , Krogsgaard-Larsen P , Stephanson A . Betel nut constituents as inhibitors of γ-aminobutyric acid uptake[J]. Nature.

Mantegazza P , Tammiso R , Vicentini L , et al. Nipecotic acid and guvacine antagonism on morphine analgesia in rats[J]. Pharmacol Res Commun, 1979, 11(8):657-662.

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