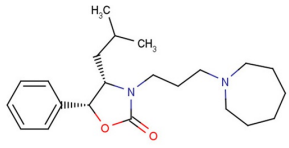
Data Sheet (Cat.No.T15591)

TargetMol
A DRUG SCREENING EXPERT

Ipenoxazone

Chemical Properties



CAS No.:	104454-71-9
Formula:	C22H34N2O2
Molecular Weight:	358.52
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Ipenoxazone is an effective and centrally acting muscle relaxant.
Targets(IC_{50})	Others: None
In vivo	An intravenous injection of 2 mg/kg Ipenoxazone causes a reduction of electromyographic activity which reaches a maximum within 3 min after the injection. High doses (greater than 30 mg/kg i.p.) of Ipenoxazone produce transient and dose-dependent sedation in almost all mice about 5 min after its administration. After the injection of Ipenoxazone at a dose of 4 mg/kg within 1 min, the blood pressure changes from a control level of 138±9 mmHg to a minimum level of 98±9 mmHg (n=6) but it rapidly returns to the control level within 1 to 2 min, while the rigidity is still reduced significantly at that time [2].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.789 mL	13.946 mL	27.892 mL
5 mM	0.558 mL	2.789 mL	5.578 mL
10 mM	0.279 mL	1.395 mL	2.789 mL
50 mM	0.056 mL	0.279 mL	0.558 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Kimura A, et al. Inhibitory effects of a new, potent, centrally acting muscle relaxant, (4S,5R)-4-(2-methylpropyl)-3-[3-(perhydroazepin-1-yl)propyl]-5- phenyl-1,3-oxazolidin-2-one (NC-1200) on micturition contractions of the bladder in rats. Eur J Pharmacol. 1988 Jul 26;152(1-2):55-62.

2. Masaki M, et al. A new class of potent centrally acting muscle relaxants: pharmacology of oxazolidinones in rat decerebrate rigidity. Br J Pharmacol. 1986 Sep;89(1):219-28.

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