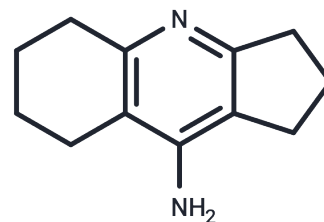


Ipidacrine

Chemical Properties

CAS No. :	62732-44-9
Formula:	C ₁₂ H ₁₆ N ₂
Molecular Weight:	188.27
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Ipidacrine (NIK-247) (NIK-247) is an Antidementia Agent
Targets(IC50)	Others
In vivo	A single oral administration of ipidacrine (0.3 and 1 mg/kg) reduced the increased total latency induced by scopolamine in this task. The repeated administration of ipidacrine (1 mg/kg) of once a day for 5 successive days reduced the increased total latency induced by scopolamine to the levels of the saline-treated control rats in this task. Ipidacrine was rapidly taken up into the brain within 5 min. Moreover, higher drug levels were observed mainly in the cortex and hippocampus, which both play important roles in learning and memory. Thus, a previous study together with this investigation indicate that ipidacrine improves amnesia which consists of the impairment of the working and reference memory in various animal models, suggesting that ipidacrine is a useful candidate for the therapy of patients with Alzheimer's disease[1].

Solubility Information

Solubility	DMSO: 10 mg/mL (53.11 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.3115 mL	26.5576 mL	53.1152 mL
5 mM	1.0623 mL	5.3115 mL	10.623 mL
10 mM	0.5312 mL	2.6558 mL	5.3115 mL
50 mM	0.1062 mL	0.5312 mL	1.0623 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.

Reference

Onodera K , Kojima J , Wachi M . Ipidacrine (NIK-247), a novel antidementia, rapidly enters the brain and improves scopolamine-induced amnesia in rats during the Morris water maze task[J]. Japanese Journal of