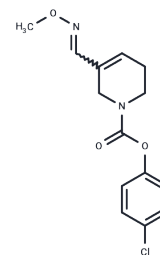


(EZ)-Itameline

Chemical Properties

CAS No. :	121750-57-0
Formula:	C ₁₄ H ₁₅ ClN ₂ O ₃
Molecular Weight:	294.73
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	Itameline (RU 47213) can be used as a choline mimetic.
Targets(IC50)	Others
In vivo	<p>b>METHODS: Rats were given scopolamine (0.1 mg/kg, intramuscularly) 15 minutes before testing to produce memory impairment. Tetrahydroaminoacridine (THA; tacrine) (1.3 and 5 mg/kg) and Itameline (RU 47213) (0.2, 0.5, 1, and 2 mg/kg) were administered before testing to evaluate the anti-amnesic effect of working memory impairment.</p> <p>RESULTS: Itameline significantly reduced or inhibited scopolamine-induced working memory deficits in rats; Itameline has the ability to reduce memory deficits induced by impaired cholinergic transmission in rats. [1]</p>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3929 mL	16.9647 mL	33.9294 mL
5 mM	0.6786 mL	3.3929 mL	6.7859 mL
10 mM	0.3393 mL	1.6965 mL	3.3929 mL
50 mM	0.0679 mL	0.3393 mL	0.6786 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

M'Harzi M, et al. Ameliorating effects of RU 47213, a novel oral and long-lasting cholinomimetic agent, on working memory impairments in rats. *Pharmacol Biochem Behav.* 1997 Apr;56(4):663-8.

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