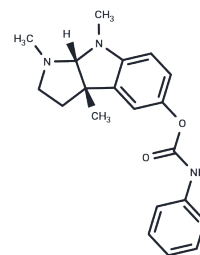


Phenserine

Chemical Properties

CAS No. :	101246-66-6
Formula:	C ₂₀ H ₂₃ N ₃ O ₂
Molecular Weight:	337.42
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Phenserine is a derivative of Physostigmine and is noncompetitive, long-acting and selective inhibitor of AChE.
Targets(IC ₅₀)	AChR
In vitro	Phenserine treatment CHO APP751SW cell shows 18.6% reduction in cells treated with 10 μ M of Phenserine, while 25 μ M concentration of Phenserine reduces APP level by 51.4%[2].
In vivo	cholinergic function has been impaired in a spatial memory task, Phenserine treatment improves learning [3].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9637 mL	14.8183 mL	29.6367 mL
5 mM	0.5927 mL	2.9637 mL	5.9273 mL
10 mM	0.2964 mL	1.4818 mL	2.9637 mL
50 mM	0.0593 mL	0.2964 mL	0.5927 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

Klein J. Phenserine. Expert Opin Investig Drugs. 2007 Jul;16(7):1087-97.

Asuni AA, et al. Modulation of amyloid precursor protein expression reduces β -amyloid deposition in a mouse

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