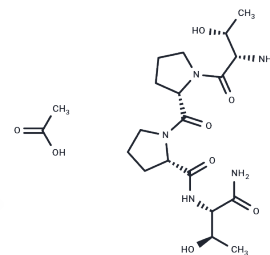


Rapastinel acetate

Chemical Properties

CAS No. :	491872-39-0
Formula:	C ₂₀ H ₃₅ N ₅ O ₈
Molecular Weight:	473.52
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Rapastinel acetate is a modulator of N-methyl-D-aspartate (NMDA) receptor and a partial agonist of glycine site long-lasting antidepressant effects.
Targets(IC50)	NMDAR,iGluR
In vivo	Rapastinel acetate (3mg/kg; i.v.) facilitated long-term potentiation (LTP) 1day-2weeks but not 4weeks post-dosing. Biweekly dosing with Rapastinel acetate sustained this effect for at least 8weeks. A single dose of Rapastinel acetate increased the proportion of whole-cell NMDAR current contributed by NR2B-containing NMDARs in the hippocampus 1week post-dosing, which returned to baseline by 4weeks post-dosing[1].

Solubility Information

Solubility	DMSO: 22.5 mg/mL (47.52 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1118 mL	10.5592 mL	21.1184 mL
5 mM	0.4224 mL	2.1118 mL	4.2237 mL
10 mM	0.2112 mL	1.0559 mL	2.1118 mL
50 mM	0.0422 mL	0.2112 mL	0.4224 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

Burgdorf J, et al. The long-lasting antidepressant effects of rapastinel (GLYX-13) are associated with a metaplasticity process in the medial prefrontal cortex and hippocampus. Neuroscience. 2015 Nov 12;308:202-11.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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