

E1R

Chemical Properties

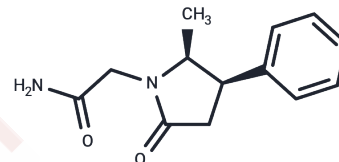
CAS No. : 1301211-78-8

Formula: C₁₃H₁₆N₂O₂

Molecular Weight: 232.28

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	E1R is a positive sigma-1 receptor (Sig1R PAM) allosteric modulator. It has a cognition-enhancing activity.
Targets(IC50)	Others
In vitro	E1R (10 μ M) does not displace the radioligand. However, in Jurkat cells, it instead increases the specific binding of a non-selective radioligand ([³ H]1,3-di(2-tolyl) guanidine) for the sigma receptor by 38%. The only target for E1R (inhibition or enhancement of radioligand binding exceeding 20%) is the sigma receptor.
In vivo	E1R (0.1-10 mg/kg; i.p. 60 min before the training session) treatment obviously improves cognitive function in a dose-related manner in mice. E1R demonstrates efficacy against scopolamine-induced cholinergic dysfunction in mice.

Solubility Information

Solubility	DMSO: 60 mg/mL (258.31 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	4.3051 mL	21.5257 mL	43.0515 mL
5 mM	0.861 mL	4.3051 mL	8.6103 mL
10 mM	0.4305 mL	2.1526 mL	4.3051 mL
50 mM	0.0861 mL	0.4305 mL	0.861 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

Zvejniece L, et al. The cognition-enhancing activity of E1R, a novel positive allosteric modulator of sigma-1 receptors. Br J Pharmacol. 2014 Feb;171(3):761-71.

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