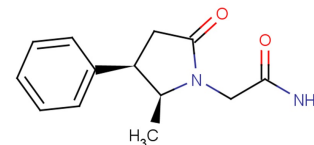


E1R

Chemical Properties

CAS No.: 1301211-78-8
Formula: C₁₃H₁₆N₂O₂
Molecular Weight: 232.28
Appearance: N/A
Storage: 0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	E1R is a positive sigma-1 receptor (Sig1R PAM) allosteric modulator. It has a cognition-enhancing activity.
Targets(IC ₅₀)	Others: None
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) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.305 mL	21.526 mL	43.051 mL
5 mM	0.861 mL	4.305 mL	8.61 mL
10 mM	0.431 mL	2.153 mL	4.305 mL
50 mM	0.086 mL	0.431 mL	0.861 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. 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.

Inhibitors · Natural Compounds · Compound Libraries

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