

S 18986

Chemical Properties

CAS No.:	175340-20-2
Formula:	C ₁₀ H ₁₂ N ₂ O ₂ S
Molecular Weight:	224.28
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	S 18986 displays cognitive enhancing properties in rodents. S 18986 is a selective and brain penetrant positive allosteric modulator of AMPA-type receptors. S 18986 activates the release of noradrenaline and acetylcholine in rat hippocampus and enhances rat memory in object-recognition tests..
Targets(IC ₅₀)	Others: None
In vivo	S 18986 displays anti-amnesic properties in middle-aged rodents in spatial memory models. S 18986 is robust memory-enhancing effects in middle-aged animals compared with aged ones. S 18986 (5-50 mg/kg; i.p.) obviously enhances both the induction and the maintenance of 4 and 20 bursts tetanus-evoked potentiation [1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.459 mL	22.294 mL	44.587 mL
5 mM	0.892 mL	4.459 mL	8.917 mL
10 mM	0.446 mL	2.229 mL	4.459 mL
50 mM	0.089 mL	0.446 mL	0.892 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

- Bernard K, et al. DRUG FOCUS: S 18986: A positive allosteric modulator of AMPA-type glutamate receptors pharmacological profile of a novel cognitive enhancer. CNS Neurosci Ther. 2010 Oct;16(5):e193-212.
- Bourasset F, et al. Neuropharmacokinetics of a new alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionic acid (AMPA) modulator, S18986 [(S)-2,3-dihydro-[3,4]cyclopentano-1,2,4-benzothiadiazine-1,1-dioxide], in the rat. Drug Metab Dispos. 2005 Aug;33(8):1137-43.

Inhibitors · Natural Compounds · Compound Libraries

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