## S 18986

Cat. No.:	HY-10936				
CAS No.:	175340-20-2				
Molecular Formula:	C <sub>10</sub> H <sub>12</sub> N <sub>2</sub> O <sub>2</sub> S				
Molecular Weight:	224.28				
Target:	iGluR				
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling				
Storage:	Powder	-20°C	3 years		
	In solvent	-80°C	6 months		
		-20°C	1 month		

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## SOLVENT & SOLUBILITY

Preparing Stock Solutions	Mass Solvent Concentration	1 mg	5 mg	10 mg
	1 mM	4.4587 mL	22.2936 mL	44.5871 ml
	5 mM	0.8917 mL	4.4587 mL	8.9174 mL
	10 mM	0.4459 mL	2.2294 mL	4.4587 mL

Description	S 18986 is a selective, orally active, brain penetrant positive allosteric modulator of AMPA-type receptors. S 18986 shows cognitive enhancing properties in rodents. S 18986 activates the release of noradrenaline and acetylcholine in rat hippocampus and enhances rat memory in object-recognition tests <sup>[1][2]</sup> .				
In Vivo	S 18986 is robust memory-enhancing effects in middle-aged animals compared with aged ones. S 18986 shows antiamnesic properties in middle-aged rodents in spatial memory models <sup>[1]</sup> . S 18986 (5-50 mg/kg; i.p.) significantly increases both the induction and the maintenance of 4 and 20 bursts tetanus-evoked potentiation <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.				
	Animal Model:	Middle-aged (14-15-months-old) mice <sup>[1]</sup>			
	Dosage:	0.3, 1, and 10 mg/kg			
	Administration:	р.о.			

**Product** Data Sheet

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Result:

## REFERENCES

[1]. Bernard K, et al. DRUG FOCUS: S 18986: A positive allosteric modulator of AMPA-type glutamate receptorspharmacological profile of a novel cognitive enhancer. CNS Neurosci Ther. 2010 Oct;16(5):e193-212.

[2]. 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):113

## Caution: Product has not been fully validated for medical applications. For research use only.

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