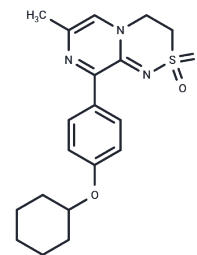


TAK-653

Chemical Properties

CAS No. : 1358751-06-0
 Formula: C₁₉H₂₃N₃O₃S
 Molecular Weight: 373.47
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	TAK-653, a selective positive allosteric modulator (PAM) of AMPA receptors exhibiting minimal agonistic activity, elicits an antidepressant-like response while maintaining a favorable safety profile in rat models.
Targets(IC50)	iGluR,Lipoxygenase

Solubility Information

Solubility	DMSO: 11.7 mg/mL (31.33 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	2.6776 mL	13.388 mL	26.7759 mL
5 mM	0.5355 mL	2.6776 mL	5.3552 mL
10 mM	0.2678 mL	1.3388 mL	2.6776 mL
50 mM	0.0536 mL	0.2678 mL	0.5355 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

Hara H, et al. TAK-653, an AMPA receptor potentiator with minimal agonistic activity, produces an antidepressant-like effect with a favorable safety profile in rats. *Pharmacol Biochem Behav.* 2021 Dec;211:173289.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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