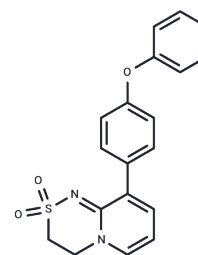


TAK-137

Chemical Properties

CAS No. : 1358749-55-9
 Formula: C₁₉H₁₆N₂O₃S
 Molecular Weight: 352.41
 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-137 is an AMPA receptor enhancer with antidepressant effects. TAK-137 has the ability to improve cognition and could be used to study schizophrenia.
Targets(IC50)	iGluR
In vivo	Oral administration of TAK-137 at 0.1-1 mg/kg to mice and 0.3-3 mg/kg to rats increased the proliferation of progenitor cells in the hippocampus. TAK-137 administered to monkeys at 0.03-1 mg/kg orally improved the cognitive performance of monkeys in the delayed matching sample task (DMTS). [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8376 mL	14.188 mL	28.376 mL
5 mM	0.5675 mL	2.8376 mL	5.6752 mL
10 mM	0.2838 mL	1.4188 mL	2.8376 mL
50 mM	0.0568 mL	0.2838 mL	0.5675 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

Kunugi A, et al. TAK-137, an AMPA-R potentiator with little agonistic effect, has a wide therapeutic window. *Neuropsychopharmacology*. 2019 Apr;44(5):961-970.

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