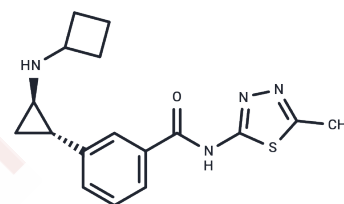


T-448 free base

Chemical Properties

CAS No. :	1597426-52-2
Formula:	C17H20N4OS
Molecular Weight:	328.43
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	T-448 free base, an orally active and irreversible inhibitor of lysine-specific demethylase 1 (LSD1, an H3K4 demethylase), has an IC50 of 22 nM.
Targets(IC50)	Histone Demethylase
In vitro	The levels of H3K4 methylation enhanced by T-448, and increased mRNA expression of neural plasticity-related genes including brain derived neurotrophic factor (Bdnf), and ameliorated learning dysfunction.
In vivo	T-448 increases brain H3K4 methylation and partially restored learning function in mice with NMDA receptor hypofunction. T-448 increases H3K4 methylation in the brain without causing hematological side effects even at 100 mg/kg.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0448 mL	15.2239 mL	30.4479 mL
5 mM	0.609 mL	3.0448 mL	6.0896 mL
10 mM	0.3045 mL	1.5224 mL	3.0448 mL
50 mM	0.0609 mL	0.3045 mL	0.609 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

Matsuda S, et al. T-448, a specific inhibitor of LSD1 enzyme activity, improves learning function without causing thrombocytopenia in mice. *Neuropsychopharmacology*. 2018 Dec 22.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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