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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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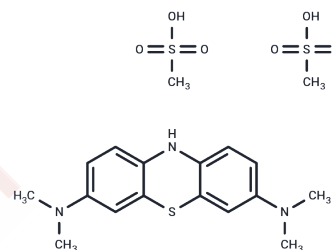
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Leucomethylene blue mesylate

Chemical Properties

CAS No. : 1236208-20-0
 Formula: $C_{16}H_{19}N_3S_2$
 Molecular Weight: 477.62
 Appearance: no data available
 Storage: keep away from direct sunlight
 Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Leucomethylene blue mesylate (TRx0237 mesylate) is a second-generation tau protein aggregation inhibitor for the treatment of Alzheimer's disease (AD) and frontotemporal dementia.
Targets(IC50)	Beta Amyloid, Microtubule Associated
In vitro	Leucomethylene blue is a second-generation tau protein aggregation inhibitor for the treatment of Alzheimer's disease (AD) and frontotemporal dementia. It is a purified form of Methylene Blue, an old drug that predates the FDA and is being widely used in Africa for the treatment for malaria as well as for methemoglobinemia and other conditions[2]. An in vitro study showed the ability of Leucomethylene blue in disrupting PHFs (paired helical filaments) isolated from Alzheimer's Disease brain tissues at the concentration at 0.16 μ M[1].
In vivo	Leucomethylene blue dose-dependently rescues the learning impairment and restores behavioral flexibility in a spatial problem-solving water-maze task in L1 (minimum effective dose: 9 mg MT/kg for TRx0237) and corrects motor learning in L66 (effective doses: 4 mg MT/kg). It reduces the number of tau-reactive neurons, particularly in the hippocampus and entorhinal cortex in L1 and in a more widespread manner in L66[1].

Solubility Information

Solubility	Ethanol: < 1 mg/mL (insoluble or slightly soluble), H ₂ O: 87 mg/mL (182.2 mM), DMSO: 88 mg/mL (184.2 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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A DRUG SCREENING EXPERT

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0937 mL	10.4686 mL	20.9371 mL
5 mM	0.4187 mL	2.0937 mL	4.1874 mL
10 mM	0.2094 mL	1.0469 mL	2.0937 mL
50 mM	0.0419 mL	0.2094 mL	0.4187 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.

Reference

Panza F, et al. Expert Opin Pharmacother. 2016, 17(4):457-61.

Liu Z, Wang F, Tang M, et al. Amyloid β and tau are involved in sleep disorder in Alzheimer's disease by orexin A

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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