

NT1-O14B

Chemical Properties

CAS No. : 2739805-64-0

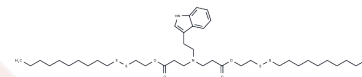
Formula: C40H68N2O4S4

Molecular Weight: 769.24

Store at low temperature, Keep away from direct sunlight

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	NT1-O14B is a novel class of neurotransmitter tryptophan lipids (NT-lipidoids). NT1-O14B can be combined with small molecule drugs (e.g., AmB) and biomolecules (e.g., Tau-ASO) and gene editing proteins (GFP-Cre) to form new neurotransmitter-derived lipid nanoparticles (NT-LNPs) that have blood-brain-barrier (BBB) permeability. Enhanced lipid hydrophobicity and membrane fusion capabilities are commonly used for delivery of nucleic acids such as mRNA, siRNA and DNA.
Targets(IC50)	Liposome

Solubility Information

Solubility	DMSO: 120 mg/mL (156 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	1.300 mL	6.4999 mL	12.9998 mL
5 mM	0.260 mL	1.300 mL	2.600 mL
10 mM	0.130 mL	0.650 mL	1.300 mL
50 mM	0.026 mL	0.130 mL	0.260 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

Ma F, et al. Neurotransmitter-derived lipidoids (NT-lipidoids) for enhanced brain delivery through intravenous injection. Sci Adv. 2020 Jul 24;6(30):eabb4429.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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