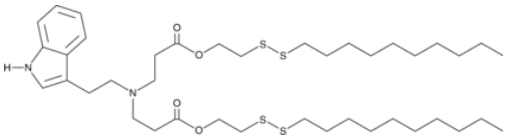
Product Data Sheet

Product Name: NT1-O14B
Cat. No.: GC52022

Chemical Properties

Cas. No.	2739805-64-0		
SMILES	O=C(OCCSSCCCCCCCCCC)CCN(CCC1=CNC2=C1C=CC=C2)CCC(OCCSSCCCCCCCCCC)=O		
Formula	$C_{40}H_{68}N_2O_4S_4$	M.Wt	769.2
Solubility	DMSO : 150 mg/mL (195.00 mM; Need ultrasonic)	Storage	-20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			

Background

NT1-O14B is a tryptamine-containing cationic lipidoid.[1] It has been used in combination with other lipids in the formation of lipid nanoparticles (LNPs). Intravenous administration of LNPs containing NT1-O14B and encapsulating antisense nucleotides against tau decreases tau brain levels in mice.

1.Ma, F., Yang, L., Sun, Z., et al.Neurotransmitter-derived lipidoids (NT-lipidoids) for enhanced brain delivery through intravenous injectionSci. Adv.6(30)eabb4429(2020)

Caution: Product has not been fully validated for medical applications. For research use only.
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