

93-0170

Chemical Properties

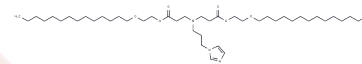
CAS No. : 2227214-78-8

Formula: C44H83N3O6

Molecular Weight: 750.15

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	93-0170 is a chalcogen-containing cationic lipidoid used in the generation of lipid nanoparticles (LPNs). LPNs containing 93-0170 localize to the spleen after intravenous injection into mice and have been utilized for delivering Cre recombinase, ribonucleoproteins for genome editing, and intratumoral delivery of cGAMP to enhance cross-presentation of tumor antigens. [1,2,3]
Targets(IC50)	Others,Liposome

Solubility Information

Solubility	Chloroform: 25 mg/mL (33.33 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	1.3331 mL	6.6653 mL	13.3307 mL
5 mM	0.2666 mL	1.3331 mL	2.6661 mL
10 mM	0.1333 mL	0.6665 mL	1.3331 mL
50 mM	0.0267 mL	0.1333 mL	0.2666 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

- Zhao, X., Chen, J., Qiu, M., et al. Imidazole-based synthetic lipidoids for in vivo mRNA delivery into primary T lymphocytes. *Angew Chem. Int. Ed. Engl.* 59(45):20083-20089 (2020)
- Chen, J., Qiu, M., Ye, Z., et al. In situ cancer vaccination using lipidoid nanoparticles. *Sci. Adv.* 7(19):eabf1244 (2021)
- Li, Y., Yang, T., Yu, Y., et al. Combinatorial library of chalcogen-containing lipidoids for intracellular delivery of genome-editing proteins. *Biomaterials* 178:652-662 (2018)

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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