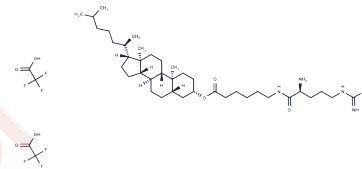


2H-Cho-Arg (trifluoroacetate salt)

Chemical Properties

CAS No. :	1609010-59-4
Formula:	C43H73F6N5O7
Molecular Weight:	886.06
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	2H-Cho-Arg is a steroid-based cationic lipid that contains a 2H-cholesterol skeleton coupled to an L-arginine head group and can be used to facilitate gene transfection. It forms a complex with plasmid DNA (pDNA) and decreases pDNA migration in an electrophoretic mobility shift assay at +/- charge ratios of 4 or higher. 2H-Cho-Arg facilitates transfection of a luciferase gene into H1299 cells, an effect that is reversed by the lipid raft-mediated endocytosis inhibitor methyl- β -cyclodextrin and the caveolae-mediated endocytosis inhibitor genistein, but not by inhibitors of clathrin- or micropinocytosis-mediated endocytosis. It induces cytotoxicity in H1299 cells (IC50 = 92.7 μ g/ml).
Targets(IC50)	Others,Liposome

Solubility Information

Solubility	DMSO: 50 mg/mL (56.43 mM),Sonication is recommended. Ethanol:PBS (pH 7.2) (1:3): 0.25 mg/mL (0.28 mM),Sonication is recommended. Ethanol: 50 mg/mL (56.43 mM),Sonication is recommended. DMF: 50 mg/mL (56.43 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	1.1286 mL	5.643 mL	11.2859 mL
5 mM	0.2257 mL	1.1286 mL	2.2572 mL
10 mM	0.1129 mL	0.5643 mL	1.1286 mL
50 mM	0.0226 mL	0.1129 mL	0.2257 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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