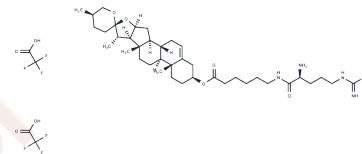


Dios-Arg (trifluoroacetate salt)

Chemical Properties

CAS No. :	1807353-31-6
Formula:	C43H67F6N5O9
Molecular Weight:	912.01
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	Dios-Arg is a steroid-based cationic lipid that contains a diosgenin skeleton coupled to an L-arginine head group. It forms a complex with plasmid DNA and decreases plasmid DNA migration in an agarose-gel retardant assay at charge ratio greater than or equal to 4. Dios-Arg facilitates transfection of plasmid DNA into H1299 and HeLa cells in the presence and absence of fetal bovine serum, an effect that is reversed by the lipid raft-mediated endocytosis inhibitor methyl- β -cyclodextrin and the caveolae-mediated endocytosis inhibitor genistein . It has been used, coupled to 1,2-dioleoyl-sn-glycero-3-PE , to bind siRNA and plasmid DNA to form cationic lipid nanoparticles for intracellular transport. Dios-Arg is cytotoxic to H1299 and HeLa cells (IC50s = 83.5 and 74.1 μ g/ml, respectively).
Targets(IC50)	Others,Liposome

Solubility Information

Solubility	DMSO: 30 mg/mL (32.89 mM),Sonication is recommended. PBS (pH 7.2): 1 mg/mL (1.1 mM),Sonication is recommended. Ethanol: 30 mg/mL (32.89 mM),Sonication is recommended. DMF: 30 mg/mL (32.89 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	1.0965 mL	5.4824 mL	10.9648 mL
5 mM	0.2193 mL	1.0965 mL	2.193 mL
10 mM	0.1096 mL	0.5482 mL	1.0965 mL
50 mM	0.0219 mL	0.1096 mL	0.2193 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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