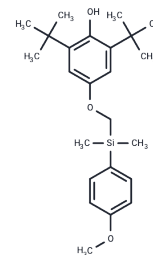


LDL-IN-3

Chemical Properties

CAS No. : 180908-67-2
 Formula: C₂₄H₃₆O₃Si
 Molecular Weight: 400.63
 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	LDL-IN-3 belongs to synthetic compounds and is an antioxidant and anti-atherosclerotic agent with good cell permeability and cardiovascular protective properties. This compound is used for the treatment of atherosclerosis-related diseases, effectively inhibiting oxidative stress and lipid deposition, and reducing arterial plaque formation.
Targets(IC50)	Others,Antioxidant,LDLR
In vitro	LDL-IN-3 inhibits low-density lipoprotein lipid peroxidation and can be used in anti-atherosclerotic studies[1].
In vivo	Methods: Female New Zealand white rabbits were fed 0.5% cholesterol/10% corn oil feed, and given 0.15% Compound I or 0.4% Compound II (dissolved in ethanol and sprayed on feed) for 70 days. Results: Compound I and II reduced total aortic lesion area by 96% and 45%, respectively, without causing elevated triglycerides. [2]

Solubility Information

Solubility	DMSO: 130 mg/mL (324.49 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	2.4961 mL	12.4803 mL	24.9607 mL
5 mM	0.4992 mL	2.4961 mL	4.9921 mL
10 mM	0.2496 mL	1.248 mL	2.4961 mL
50 mM	0.0499 mL	0.2496 mL	0.4992 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

BARON ALAIN D, CHEN KIM SENG. SILYL PHENOLS FOR PROMOTING VASCULAR HEALTH. WO/2005/039596A1
US 6133467

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