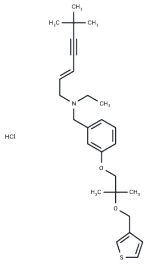
Data Sheet (Cat.No.T11320)

FR194738

Chemical Properties



CAS No. : 204067-52-7

Formula: C27H38ClNO2S

Molecular Weight: 476.11

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	FR194738 is an inhibitor of squalene epoxidase with an IC50 of 9.8 nM in HepG2 cell homogenates.
Targets(IC50)	Antifungal
In vitro	FR194738 inhibits cholesterol biosynthesis in HepG2 cells (IC50 = 2.1 nM)[1]. FR194738 concentration-dependently inhibits hamster liver microsomal squalene epoxidase activity (IC50 = 14 nM)[2]. FR194738 inhibits the incorporation of [14C]acetate in intact HepG2 cells into free cholesterol (IC50 = 4.9 nM) and cholesteryl ester (IC50 = 8.0 nM) in a concentration-dependent manner. FR194738 induces intracellular [14C]squalene accumulation and increases the incorporation of [14C]acetate into squalene[3].
In vivo	FR194738 (32 and 100 mg/kg) reduces the serum levels of total, non HDL and HDL cholesterol, and triglyceride and increases HMG-CoA reductase activity by 1.3-fold at a dose of 32 mg/kg[2].

Solubility Information

Solubility	DMSO: 200 mg/mL (420.1 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1004 mL	10.5018 mL	21.0035 mL
5 mM	0.4201 mL	2.1004 mL	4.2007 mL
10 mM	0.210 mL	1.0502 mL	2.1004 mL
50 mM	0.042 mL	0.210 mL	0.4201 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.

Reference

Sawada M, et al. Synthesis and biological activity of a novel squalene epoxidase inhibitor, FR194738. Bioorg Med Chem Lett. 2004 Feb 9;14(3):633-7.
Sawada M, et al. Inhibition of cholesterol synthesis causes both hypercholesterolemia and hypocholesterolemia in hamsters. Biol Pharm Bull. 2002 Dec;25(12):1577-82.
Sawada M, et al. Effect of FR194738, a potent inhibitor of squalene epoxidase, on cholesterol metabolism in HepG2 cells. Eur J Pharmacol. 2001 Nov 9;431(1):11-6.

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