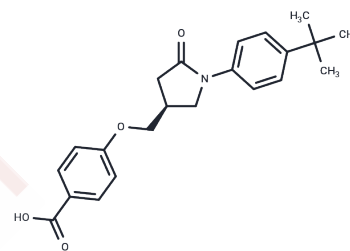


S-2E

Chemical Properties

CAS No. : 155730-92-0
 Formula: C₂₂H₂₅NO₄
 Molecular Weight: 367.44
 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	S-2E is a compound that functions as an orally active, noncompetitive inhibitor of both HMG-CoA reductase and acetyl-CoA carboxylase. It exhibits an anti-hyperlipidemic action, making it suitable for studying conditions such as familial hypercholesterolemia and mixed hyperlipidemia [1] [2].
Targets(IC50)	Others,Acetyl-CoA Carboxylase,HMG-CoA Reductase
In vivo	In the liver, S-2E undergoes conversion to its active form, S-2E-CoA, which noncompetitively blocks the function of 3-hydroxy-3-methylglutaryl coenzyme-A (HMG-CoA) reductase and acetyl-CoA carboxylase, with inhibition constants (K _i) of 18.11 μM and 69.2 μM, respectively [1]. When administered orally at doses ranging from 3 to 30 mg/kg, S-2E effectively reduces the secretion rates of very-low-density lipoprotein (VLDL)-cholesterol and triglycerides in rats treated with Triton WR-1339. Additionally, S-2E simultaneously decreases the levels of total cholesterol and triglycerides in the blood of Zucker fatty rats [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7215 mL	13.6077 mL	27.2153 mL
5 mM	0.5443 mL	2.7215 mL	5.4431 mL
10 mM	0.2722 mL	1.3608 mL	2.7215 mL
50 mM	0.0544 mL	0.2722 mL	0.5443 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

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