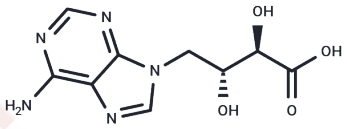
Data Sheet (Cat.No.T25385)

TargetMol

Eritadenine

Chemical Properties



CAS No. : 23918-98-1

Formula: C9H11N5O4

Molecular Weight: 253.22

Storage: Store at low temperature
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	Eritadenine (Lentinacin) is a mushroom-derived compound that acts on the adenosine P-site in adipocyte plasma membranes, lowering cholesterol levels and altering phospholipid composition in rat models of hyperhomocysteinemia, used in anxiety disorder studies.
Targets(IC50)	Others
In vitro	Eritadenine inhibited angiotensin-converting enzyme (ACE) activity with IC50 of 0.091 μM. [1]
In vivo	Eritadenine (50 mg/kg, fed) induces its cholesterol-lowering effects by modulating the fatty acid and molecular profile of phosphatidylcholine (PC) regardless of the presence or absence of exogenous cholesterol. [2]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9491 mL	19.7457 mL	39.4914 mL
5 mM	0.7898 mL	3.9491 mL	7.8983 mL
10 mM	0.3949 mL	1.9746 mL	3.9491 mL
50 mM	0.079 mL	0.3949 mL	0.7898 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

Afrin S, et al. Eritadenine from Edible Mushrooms Inhibits Activity of Angiotensin Converting Enzyme in Vitro. J Agric Food Chem. 2016 Mar 23;64(11):2263-8.

Shimada Y, et al. Eritadenine-induced alterations of plasma lipoprotein lipid concentrations and phosphatidylcholine molecular species profile in rats fed cholesterol-free and cholesterol-enriched diets. Biosci Biotechnol Biochem. 2003 May;67(5):996-1006.

Shimada Y, Yamakawa A, Morita T, Sugiyama K. Effects of dietary eritadenine on the liver microsomal Delta6-desaturase activity and its mRNA in rats. Biosci Biotechnol Biochem. 2003 Jun;67(6):1258-66. PubMed PMID: 12843651.

Sugiyama K, Akachi T, Yamakawa A. Hypocholesterolemic action of eritadenine is mediated by a modification of hepatic phospholipid metabolism in rats. J Nutr. 1995 Aug;125(8):2134-44. PubMed PMID: 7643248.