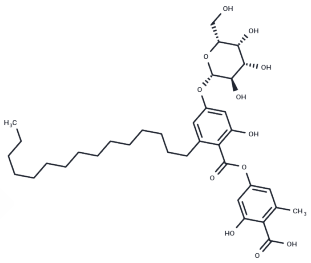
Data Sheet (Cat.No.T38069)

TargetMol

Aquastatin A

Chemical Properties



CAS No. : 153821-50-2

Formula: C36H52O12

Molecular Weight: 676.8

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	Aquastatin A is a fungal metabolite originally isolated fromF. aquaeductuumthat has diverse biological activities.1It is active againstS. aureus(MIC = 32 μg/ml) and inhibits enoyl-acyl carrier protein reductase (FabI; IC50= 3.2 μM) andS. aureusfatty acid synthesis (IC50= 3.5 μM).2Aquastatin A also inhibits the Na+/K+-ATPase and H+/K+-ATPase (IC50s = 7.1 and 6.2 μM, respectively), as well as protein tyrosine phosphatase 1B (PTP1B; IC50= 0.19 μM).1,3
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4775 mL	7.3877 mL	14.7754 mL
5 mM	0.2955 mL	1.4775 mL	2.9551 mL
10 mM	0.1478 mL	0.7388 mL	1.4775 mL
50 mM	0.0296 mL	0.1478 mL	0.2955 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

Hamano, K., Kinoshita-Okami, M., Minagawa, K., et al.Aquastatin A, an inhibitor of mammalian adenosine triphosphatases from Fusarium aquaeductuum. Taxonomy, fermentation, isolation, structure determination and biological propertiesJ. Antibiot. (Tokyo)46(11)1648-1657(1993)

Kwon, Y.-J., Fang, Y., Xu, G.-H., et al.Aquastatin A, a new inhibitor of enoyl-acyl carrier protein reductase from Sporothrix sp. FN611Biol. Pharm. Bull.32(12)2061-2064(2009)

Seo, C., Soh, J.H., Oh, H., et al.Isolation of the protein tyrosine phosphatase 1B inhibitory metabolite from the marine-derived fungus Cosmospora sp. SF-5060Bioorg. Med. Chem. Lett.19(21)6095-6097(2009)

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481