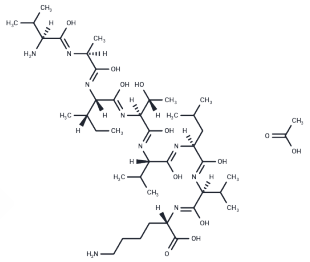
Data Sheet (Cat.No.TP1910L1)

TargetMol

CALP1 acetate

Chemical Properties



CAS No. :

Formula: C42H79N9O12

Molecular Weight: 902.13

Storage: Keep away from moisture
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	CALP1 acetate is a calmodulin (CaM) agonist (Kd of 88 μM) that binds to the CaM EF-hand/Ca2+-binding site. CALP1 blocks calcium influx and apoptosis (IC50 of 44.78 μM) by inhibiting the open of calcium channel. CALP1 blocks glutamate receptor channels and blocks a store-operated nonselective cation channel. CALP1 activates CaM-dependent phosphodiesterase activity.
Targets(IC50)	CaMK,Calcium Channel

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1085 mL	5.5424 mL	11.0849 mL
5 mM	0.2217 mL	1.1085 mL	2.217 mL
10 mM	0.1108 mL	0.5542 mL	1.1085 mL
50 mM	0.0222 mL	0.1108 mL	0.2217 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

R Houtman, et al. Attenuation of very late antigen-5-mediated adhesion of bone marrow-derived mast cells to fibronectin by peptides with inverted hydropathy to EF-hands. J Immunol. 2001 Jan 15;166(2):861-7.
R Ten Broeke, et al. Calcium sensors as new therapeutic targets for airway hyperresponsiveness and asthma. FASEB J. 2001 Aug;15(10):1831-3.
M K Manion, et al. A new type of Ca(2+) channel blocker that targets Ca(2+) sensors and prevents Ca(2+)-mediated apoptosis. FASEB J. 2000 Jul;14(10):1297-306.
M Villain, et al. De novo design of peptides targeted to the EF hands of calmodulin. J Biol Chem. 2000 Jan 28;275(4):2676-85.