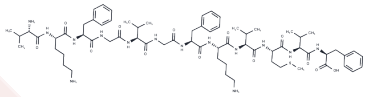
Data Sheet (Cat.No.TP1909L1)

TargetMol

CALP2 acetate(261969-04-4 free base)

Chemical Properties



CAS No. :

Formula: C68H104N14O13S

Molecular Weight: 1357.7

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	CALP2 acetate is an antagonist of calmodulin showing high affinity for binding to the CaM EF-hand/Ca2+-binding site with a Kd of 7.9 μM. CALP2 acetate potently inhibits of adhesion and degranulation. CALP2 acetate is also a strong activator of alveolar macrophages. CALP2 acetate inhibits CaM-dependent phosphodiesterase activity and increases intracellular Ca2+ concentrations.
Targets(IC50)	CaMK,PDE

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.7365 mL	3.6827 mL	7.3654 mL
5 mM	0.1473 mL	0.7365 mL	1.4731 mL
10 mM	0.0737 mL	0.3683 mL	0.7365 mL
50 mM	0.0147 mL	0.0737 mL	0.1473 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 Ten Broeke, et al. Calcium sensors as new therapeutic targets for airway hyperresponsiveness and asthma. FASEB J. 2001 Aug;15(10):1831-3.

Robert Ten Broeke, et al. Specific modulation of calmodulin activity induces a dramatic production of superoxide by alveolar macrophages. Lab Invest. 2004 Jan;84(1):29-40.

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.

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.

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