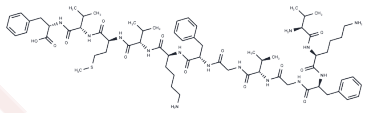
Data Sheet (Cat.No.TP1909)

TargetMol

CALP2

Chemical Properties



CAS No. : 261969-04-4

Formula: C68H104N14O13S

Molecular Weight: 1357.72

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	Cell-permeable calmodulin (CaM) antagonist that binds to the EF-hand/Ca2+-binding site. CALP2 has been demonstrated to inhibit CaM-dependant phosphodiesterase activity and increase intracellular Ca2+ concentrations by modulating Ca2+-channel activity. CALP2 has also been shown to be a potent activator of alveolar macrophages.
Targets(IC50)	CaMK

Solubility Information

Solubility	H2O: 1 mg/mL (0.74 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.7365 mL	3.6826 mL	7.3653 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

Houtman et al (2001) 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. 166 861 PMID:
Ten Broeke et al (2001) Calcium sensors as new therapeutic targets for airway hyperresponsiveness and asthma. FASEB J. 15 1831 PMID:
Ten Broeke et al (2004) Specific modulation of calmodulin activity induces a dramatic production of superoxide by alveolar macrophages. Lab.Invest. 84 29 PMID:

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