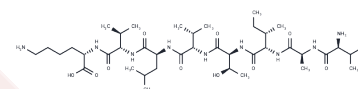


CALP1

Chemical Properties

CAS No. :	145224-99-3
Formula:	C40H75N9O10
Molecular Weight:	842.09
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Cell-permeable calmodulin (CaM) agonist that binds to the EF-hand/Ca ²⁺ -binding site; produces CaM-dependent activation of phosphodiesterase. Also binds to cytoplasmic sites on other Ca ²⁺ channels, including NMDA and HIV-1 gp120-activated channels, inhibiting Ca ²⁺ -mediated cytotoxicity and apoptosis (IC ₅₀ = 52 μM). Shown to protect pancreatic acinar cells from gossypol induced necrosis. Inhibits VLA-5-mediated adhesion of mast cells to fibronectin in vitro and attenuates inflammatory cell influx in guinea pig lung in vivo.
Targets(IC ₅₀)	CaMK, Apoptosis, GluR, PDE

Solubility Information

Solubility	H ₂ O: 1 mg/mL (1.19 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1875 mL	5.9376 mL	11.8752 mL
5 mM	0.2375 mL	1.1875 mL	2.375 mL
10 mM	0.1188 mL	0.5938 mL	1.1875 mL
50 mM	0.0238 mL	0.1188 mL	0.2375 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

Manion et al (2000) A new type of Ca²⁺ channel blocker that targets Ca²⁺ sensors and prevents Ca²⁺-mediated apoptosis. FASEB J. 14 1297 PMID:

Houtman et al (2001) Attenuation of very late antigen-5-mediated adhesion of bone marrow-derived mast cells to fibronectin by peptides with inverted hydrophathy to EF-hands. J.Immunol. 166 861 PMID:

Ten Broeke et al (2003) Ca²⁺ sensors modulate asthmatic symptoms in an allergic model for asthma. Eur.J. Pharmacol. 476 151 PMID:

Villain et al (2000) De novo design of peptides targeted to the EF hands of calmodulin. J.Biol.Chem. 274 2676

Ferdeik et al (2017) BH3 mimetic-elicited Ca²⁺ signals in pancreatic acinar cells are dependent on Bax and can be reduced by Ca²⁺-like peptides. Cell.Death.Dis. 8 PMID:

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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