# Data Sheet (Cat.No.TP1910)



#### CALP1

## **Chemical Properties**

CAS No.: 145224-99-3

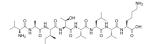
Formula: C40H75N9O10

Molecular Weight: 842.09

Appearance: no data available

Storage: keep away from moisture

Powder: -20°C for 3 years | In solvent: -80°C for 1 year



### **Biological Description**

Description Cell-permeable calmodulin (CaM) agonist that binds to the EF-hand/Ca2+-binding site;

produces CaM-dependent activation of phosphodiesterase. Also binds to cytoplasmic sites on other Ca2+ channels, including NMDA and HIV-1 gp120-activated channels, inhibiting Ca2+-mediated cytotoxicity and apoptosis (IC50 = 52  $\mu$ M). 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.

#### **Solubility Information**

Solubility H2O: 1 mg/mL, (< 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.

#### 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:<br/>
About man et al (2001) Attenuation of very late antigen-5-mediated

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