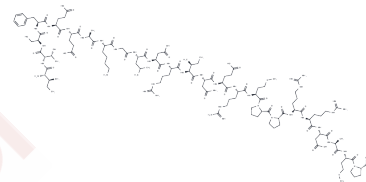


Calcineurin Autoinhibitory Peptide

Chemical Properties

CAS No. :	148067-21-4
Formula:	C124H205N39O39S2
Molecular Weight:	2930.34
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	Selective inhibitor of Ca ²⁺ -calmodulin-dependent protein phosphatase (calcineurin) (IC ₅₀ ~ 10 μM). Does not inhibit PP1, PP2A or CaM kinase II (IC ₅₀ > 100 mM).
Targets(IC ₅₀)	Phosphatase

Solubility Information

Solubility	H ₂ O: 1 mg/mL (0.34 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.3413 mL	1.7063 mL	3.4126 mL
5 mM	0.0683 mL	0.3413 mL	0.6825 mL
10 mM	0.0341 mL	0.1706 mL	0.3413 mL
50 mM	0.0068 mL	0.0341 mL	0.0683 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

- Hashimoto et al (1990) Identification of an autoinhibitory domain in calcineurin. J.Biol.Chem. 265 1924 PMID:
 Perrino et al (1995) Calcium regulation of calcineurin phosphatase activity by its B subunit and calmodulin. J.Biol. Chem. 270 340 PMID:
 Yokoyama and Wang (1994) The role of the autoinhibitory domain in differential metal ion activation of calmodulin-stimulated phosphatase. FEBS Lett. 337 128 PMID:

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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