

PKC β pseudosubstrate

Chemical Properties

CAS No. : 172308-76-8

Formula: C177H294N62O38S3

Molecular Weight: 3994.84

Keep away from moisture

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

Actual storage temperature shall be subject to the COA.

Sequence 1:CRQIKIWFQNRMRKWKK
Sequence 1':CRFARKGALRQKNV
(Disulfide bridge:Cys₁-Cys_{1'})

Biological Description

Description	Selective cell-permeable peptide inhibitor of protein kinase C (IC ₅₀ ~ 0.5 μ M). Consists of amino acids 19 - 31 of PKC pseudosubstrate domain linked by a disulphide bridge to a cell permeabilisation Antennapedia domain vector peptide. The Antennapedia peptide is actively taken up by intact cells, at 4 or 37°C, ensuring rapid and effective uptake of the inhibitor peptide. Once inside the cell, the disulphide bonds are subjected to reduction in the cytoplasm leading to release of the inhibitor peptide.
Targets(IC ₅₀)	PKC

Solubility Information

Solubility	H ₂ O: 1 mg/mL (0.25 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2503 mL	1.2516 mL	2.5032 mL
5 mM	0.0501 mL	0.2503 mL	0.5006 mL
10 mM	0.025 mL	0.1252 mL	0.2503 mL
50 mM	0.005 mL	0.025 mL	0.0501 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

Derossi et al (1994) The third helix of the antennapedia homeodomain translocates through biological membranes. J.Biol.Chem. 269 10444 PMID:

House and Kemp (1987) Protein kinase C contains a pseudosubstrate prototope in its regulatory domain. Science 238 1726 PMID:

Theodore et al (1995) Intraneuronal delivery of protein kinase C pseudosubstrate leads to growth cone collapse. J. Neurosci. 15 7158 PMID:

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