Data Sheet (Cat.No.TP1956)

TargetMol

PKC ζ pseudosubstrate

Chemical Properties

CAS No. :

Formula: C208H336N74O44S3

Molecular Weight: 4673.59

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	Inhibitor of protein kinase C (PKC) ζ; attached to cell permeabilisation Antennapedia domain vector peptide. Consists of amino acids 113 - 129 of PKC ζ pseudosubstrate domain linked by a disulphide bridge to the 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. Induces mast cell degranulation by a PKC ζ-independent pathway.

Solubility Information

Solubility	H2O: 2 mg/mL (0.43 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.214 mL	1.0698 mL	2.1397 mL
5 mM	0.0428 mL	0.214 mL	0.4279 mL
10 mM	0.0214 mL	0.107 mL	0.214 mL
50 mM	0.0043 mL	0.0214 mL	0.0428 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

Laudanna et al (1998) Evidence of ζ protein kinase C involvement in polymorphonuclear neutrophil integrin-dependent adhesion and chemotaxis. J.Biol.Chem 273 30306 PMID:

Lim et al (2008) A myristoylated pseudosubstrate peptide of PKC-ζ induces degranulation in HMC-1 cells independently of PKC-ζ activity. Life Sci. 82 733 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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