
Product Data Sheet

Product Name: PKC ζ pseudosubstrate

Cat. No.: GC50022

Chemical Properties

Cas. No.

Formula C₂₀₈H₃₃₆N₇₄O₄₄S₃

M.Wt 4673.59

Solubility Soluble in DMSO

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

Background

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.

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:9804792 | 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:18289606 | Theodore et al (1995) Intraneuronal delivery of protein kinase C pseudosubstrate leads to growth cone collapse. J.Neurosci. 15 7158 PMID:7472470

Caution: Product has not been fully validated for medical applications. For research use only.

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