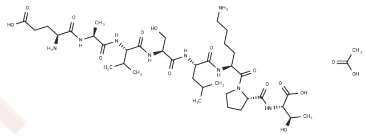
Data Sheet (Cat.No.T35827L)

TargetMol

PKCε Inhibitor Peptide acetate

Chemical Properties



CAS No. :

Formula: C39H69N9O15

Molecular Weight: 904.02

Storage: Store at low temperature,Keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	PKCε Inhibitor Peptide acetate is a selective PKCε inhibitor containing the site for its specific receptor for activated C kinase (RACK). PKCε Inhibitor Peptide acetate inhibits the translocation of PKCε, but not α-, β-, and δPKC.
Targets(IC50)	PKC
In vitro	PKCε Inhibitor Peptide acetate(1 μM; 24 hours) significantly inhibits Oleic acid-induced connexin 43 Ser368 phosphorylation and prevents Oleic acid-induced gap junction disassembly in cardiomyocytes[1].
In vivo	In C57BL/6J mice transplanted the hearts of FVB mice, PKCε Inhibitor Peptide acetate (20 mg/kg/day; osmotic pumps s.c.) significantly improved the beating score throughout the treatment. PKCε Inhibitor Peptide acetate treatment almost abolished the rise in pro-fibrotic cytokine, TGF-β, and monocyte recruiting chemokine MCP-1 levels. PKCε Inhibitor Peptide acetate reduced the infiltration of macrophages and T cells into the cardiac grafts and decreased parenchymal fibrosis[2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1062 mL	5.5309 mL	11.0617 mL
5 mM	0.2212 mL	1.1062 mL	2.2123 mL
10 mM	0.1106 mL	0.5531 mL	1.1062 mL
50 mM	0.0221 mL	0.1106 mL	0.2212 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

Yuahn-Sieh Huang, et al. Mechanism of oleic acid-induced gap junctional disassembly in rat cardiomyocytes. J Mol Cell Cardiol. 2004 Sep;37(3):755-66.

Tomoyoshi Koyanagi, et al. Pharmacological inhibition of epsilon PKC suppresses chronic inflammation in murine cardiac transplantation model. J Mol Cell Cardiol. 2007 Oct;43(4):517-22.

M Yedovitzky, et al. Translocation inhibitors define specificity of protein kinase C isoenzymes in pancreatic beta-cells. J Biol Chem. 1997 Jan 17;272(3):1417-20.

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