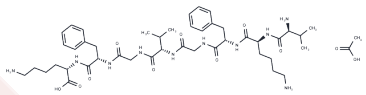
Data Sheet (Cat.No.TP1911L)

TargetMol

CALP3 acetate(261969-05-5 free base)

Chemical Properties



CAS No. :

Formula: C46H72N10O11

Molecular Weight: 941.12

Storage: 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	CALP3 acetate is a potent Ca2+ channel blocker that activates EF hand motifs of Ca2+-binding proteins. CALP3 acetate can functionally mimic increased [Ca2+]i by modulating the activity of Calmodulin (CaM), Ca2+ channels and pumps.
Targets(IC50)	Calcium Channel
In vitro	CALP3 inhibits glutamate caused a large sustained increase in [Ca2+]i in a dose-dependent manner (IC50=37.25 μM) in Fura-2-loaded neuronal cultures. CALP3 inhibits glutamate-induced cytotoxicity in a dose-dependent manner (IC50=50.97 μM) in cultured rat neocortical neurons. CALP3 causes dose-dependent inhibition of apoptosis (IC50=33.41 μM). CALP3 (100 μM) inhibits apoptosis induced by HIV gp120 and SAg in Human T cells. CALP3 (100?μM; 15?min pretreatment) reduces gossypol-induced necrosis and increases the fraction of live cells[1][2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.0626 mL	5.3128 mL	10.6256 mL
5 mM	0.2125 mL	1.0626 mL	2.1251 mL
10 mM	0.1063 mL	0.5313 mL	1.0626 mL
50 mM	0.0213 mL	0.1063 mL	0.2125 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

Manion M K , Su Z , Villain M , et al. A new type of Ca2+ channel blocker that targets Ca2+ sensors and prevents Ca2+-mediated apoptosis[J]. Faseb Journal, 2000, 14(10):1297-1306.

Ferdek P E , Jakubowska M A , Nicolaou P , et al. BH3 mimetic-elicited Ca2+ signals in pancreatic acinar cells are dependent on Bax and can be reduced by Ca2+-like peptides[J]. Cell Death & Disease, 2017, 8(3):e2640.

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