

CALP1 TFA

Chemical Properties

CAS No. :

Formula: C42H76F3N9O12

Molecular Weight: 956.1

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.

Biological Description

Description	CALP1 TFA, a calmodulin (CaM) agonist with a dissociation constant (Kd) of 88 μ M, selectively binds to the CaM EF-hand/Ca ²⁺ -binding site, inhibiting calcium channel opening. This action blocks calcium influx and apoptosis with an IC ₅₀ of 44.78 μ M, modulates glutamate receptor channel activity, and impedes a store-operated nonselective cation channel. Additionally, CALP1 TFA enhances CaM-dependent phosphodiesterase activity, denoting its multifaceted role in modulating cellular calcium dynamics [1] [2] [3] [4].
Targets(IC50)	CaMK,Apoptosis,GluR,PDE

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.0459 mL	5.2296 mL	10.4592 mL
5 mM	0.2092 mL	1.0459 mL	2.0918 mL
10 mM	0.1046 mL	0.523 mL	1.0459 mL
50 mM	0.0209 mL	0.1046 mL	0.2092 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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