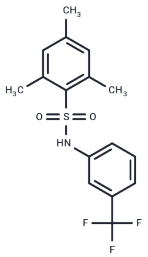
Data Sheet (Cat.No.T8531)

TargetMol

m-3M3FBS

Chemical Properties



CAS No. : 200933-14-8

Formula: C16H16F3NO2S

Molecular Weight: 343.36

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	m-3M3FBS is a phospholipase C (PLC) activator.
Targets(IC50)	Apoptosis,Phospholipase
In vitro	m-3M3FBS stimulated a transient intracellular calcium concentration ([Ca(2+)](i)) increase in neutrophils.?Moreover, m-3M3FBS stimulated the formation of inositol phosphates in U937 cells, indicating that it stimulates PLC activity.?The compound showed no cell-type specificity in terms of [Ca(2+)](i) increase in the various cell lines including leukocytes, fibroblasts, and neuronal cells,?also ruled out the possible involvement of heterotrimeric G proteins in m-3M3FBS-stimulated signaling by confirming the following: 1) pertussis toxin does not inhibit m-3M3FBS-induced [Ca(2+)](i) increase;?2) m-3M3FBS does not stimulate cyclic AMP generation;?and 3) the inhibition of G(q) by the regulator of G protein-signaling 2 does not affect the m-3M3FBS-induced [Ca(2+)](i) increase.?m-3M3FBS stimulated PLC activity in vitro.?The purified isoforms of PLC that were tested (i.e., beta2, beta3, gamma1, gamma2, and delta1) were activated by m-3M3FBS and showed no isoform specificity[1].

Solubility Information

Solubility	DMSO: 250 mg/mL (728.1 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9124 mL	14.562 mL	29.124 mL
5 mM	0.5825 mL	2.9124 mL	5.8248 mL
10 mM	0.2912 mL	1.4562 mL	2.9124 mL
50 mM	0.0582 mL	0.2912 mL	0.5825 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

Bae YS, et al. Identification of a compound that directly stimulates phospholipase C activity. Mol Pharmacol. 2003; 63(5):1043-1050.

Lee YN, et al. The novel phospholipase C activator, m-3M3FBS, induces monocytic leukemia cell apoptosis. Cancer Lett. 2005;222(2):227-235.