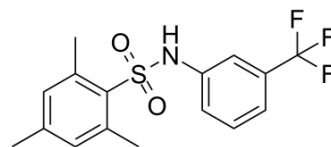


m-3M3FBS

| | |
|--------------------|---|
| Cat. No.: | HY-19619 |
| CAS No.: | 200933-14-8 |
| Molecular Formula: | C ₁₆ H ₁₆ F ₃ NO ₂ S |
| Molecular Weight: | 343.36 |
| Target: | Phospholipase; Apoptosis |
| Pathway: | Metabolic Enzyme/Protease; Apoptosis |
| Storage: | Please store the product under the recommended conditions in the COA. |



BIOLOGICAL ACTIVITY

Description

m-3M3FBS is a potent **phospholipase C (PLC)** activator. m-3M3FBS stimulates superoxide generation in human neutrophils, upregulates intracellular calcium concentration, and stimulates inositol phosphate generation in various cell lines. m-3M3FBS induces monocytic leukemia cell **apoptosis**^{[1][2][3]}.

In Vitro

m-3M3FBS (5-50 μM) stimulates the formation of inositol phosphates in U937 cells^[1].
 m-3M3FBS (50 μM; 24 hours) inhibits the growth of the leukemic cell lines U937 and THP-1, but not primary monocytes^[3].
 m-3M3FBS (50 μM; 24 hours) induces U937 cell apoptosis^[3].

Cell Viability Assay^[3]

| | |
|------------------|--|
| Cell Line: | U937 and THP-1 cells |
| Concentration: | 50 μM |
| Incubation Time: | 24 hours |
| Result: | Inhibited the growth of the leukemic cell lines U937 and THP-1, but not primary monocytes. |

Cell Viability Assay^[3]

| | |
|------------------|---|
| Cell Line: | U937 cells |
| Concentration: | 50 μM |
| Incubation Time: | 24 hours |
| Result: | The apoptotic rate of m-3M3FBS-treated cells was 53.9%. |

REFERENCES

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

[2]. Krjukova J, et al. Phospholipase C activator m-3M3FBS affects Ca²⁺ homeostasis independently of phospholipase C activation. Br J Pharmacol. 2004;143(1):3-7.

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

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA