

Certificate of Analysis

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Product Name: *m*-3M3FBS

Catalog No.: 1941

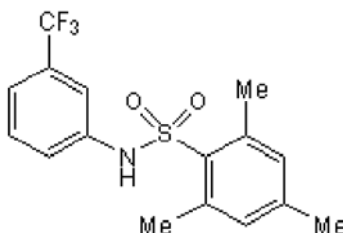
Batch No.: 1

CAS Number: 200933-14-8

IUPAC Name: 2,4,6-Trimethyl-*N*-[3-(trifluoromethyl)phenyl]benzenesulfonamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₆F₃NO₂S
Batch Molecular Weight: 343.36
Physical Appearance: White solid
Solubility: ethanol to 100 mM
 DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.59 (Ethyl acetate:Petroleum ether [2:8])
Melting Point: Between 115 - 116°C
HPLC: Shows 99.9% purity
¹H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.97	4.7	4.08
Found	55.92	4.74	4.09

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Activator of phospholipase C (PLC). Stimulates superoxide generation, Ca²⁺ release and inositol phosphate formation in a variety of cell types. Also inhibits growth of the leukemic cell lines U937 and THP-1. Negative Control also available.

Physical and Chemical Properties:

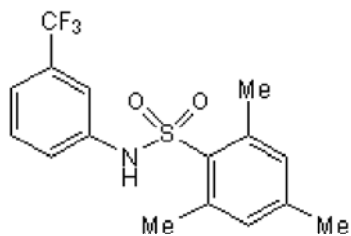
Batch Molecular Formula: C₁₆H₁₆F₃NO₂S

Batch Molecular Weight: 343.36

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

ethanol to 100 mM

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Lee et al (2005) The novel phospholipase C activator, *m*-3M3FBS, induces monocytic leukemia cell apoptosis. *Cancer Lett.* **222** 227. PMID: 15863272.

Krjukova et al (2004) Phospholipase C activator *m*-3M3FBS affects Ca²⁺ homeostasis independently of phospholipase C activation. *Br.J.Pharmacol.* **143** 3. PMID: 15302681.

Bae et al (2003) Identification of a compound that directly stimulates phospholipase C activity. *Mol.Pharmacol.* **63** 1043. PMID: 12695532.

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