Activator of phospholipase C (PLC). Stimulates superoxide generation, Ca\(^{2+}\) release and inositol phosphate release in a variety of cell types\(^1\). Inhibits growth of U937 and THP-1 cells\(^2\). Also affects calcium homeostasis independently of PLC activation\(^3\).

1) Bae et al. (2003), Identification of a compound that directly stimulates phospholipase C activity; Mol. Pharmacol., 63 1043
2) Lee et al. (2005), The novel phospholipase C activator, m-3M3FBS, induces monocytic leukemia cell apoptosis; Cancer Lett., 222 227
3) Krjukova et al. (2004), Phospholipase C activator m-3M3FBS affects Ca\(^{2+}\) homeostasis independently of phospholipase C activation; Br. J. Pharmacol., 143 3

**PHYSICAL DATA**

- **Molecular Weight:** 343.37
- **Molecular Formula:** C\(_{16}\)H\(_{16}\)F\(_3\)NO\(_2\)S
- **Purity:** 98% by TLC
  
  - NMR: (Conforms)
- **Solubility:** DMSO (up to 50 mg/ml) or Ethanol (up to 40 mg/ml)
- **Physical Description:** Beige solid
- **Storage and Stability:** Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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