

Certificate of Analysis

Product Name: MP A08

Catalog No.: 5803

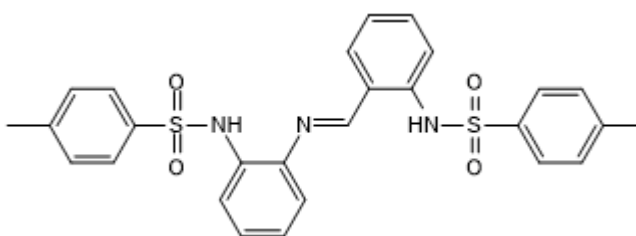
Batch No.: 1

CAS Number: 219832-49-2

IUPAC Name: 4-Methyl-N-[2-[[[2-[[[(4-methylphenyl)sulfonyl]amino]phenyl]imino]methyl]phenyl]benzenesulfonamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₇H₂₅N₃O₄S₂
Batch Molecular Weight: 519.64
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	62.41	4.85	8.09
Found	62.57	4.85	8.08

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

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Description:

Selective ATP competitive sphingosine kinase 2 and 1 (SphK2/1) inhibitor (K_i values are 6.9 and 27 μ M, respectively). Exhibits selectivity for SphK 1 and 2 over other kinases. Inhibits cellular S1P production and increases sphingosine and ceramide levels in vitro. Also induces mitochondrial-associated apoptosis. Reduces tumor growth in a human lung adenocarcinoma xenograft mouse model, by inducing apoptosis and suppressing angiogenesis. Cell permeable.

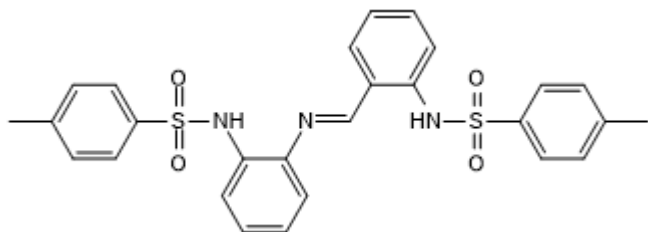
Physical and Chemical Properties:

Batch Molecular Formula: $C_{27}H_{25}N_3O_4S_2$

Batch Molecular Weight: 519.64

Physical Appearance: Yellow solid

Batch Molecular Structure:



Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

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:

Pitman et al (2015) A selective ATP-competitive sphingosine kinase inhibitor demonstrates anti-cancer properties. *Oncotarget* **6** 7065. PMID: 25788259.

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