

Product Name: ESI 05

Catalog No.: 6320

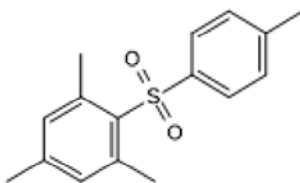
Batch No.: 1

CAS Number: 5184-64-5

IUPAC Name: 1,3,5-Trimethyl-2-[(4-methylphenyl)sulfonyl]benzene

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₈O₂S
Batch Molecular Weight: 274.38
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.3 (Ethyl acetate:Petroleum ether [9:1])
HPLC: Shows 98.1% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	70.04	6.61	
Found	69.95	6.67	

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

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Description:

EPAC2 inhibitor. Inhibits cAMP binding to EPAC2 and cAMP mediated EPAC2 guanine nucleotide exchange factor (GEF) activity (IC₅₀ = 0.4 μM).

Physical and Chemical Properties:

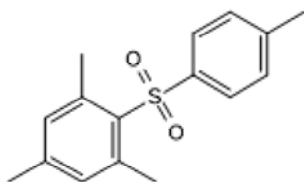
Batch Molecular Formula: C₁₆H₁₈O₂S

Batch Molecular Weight: 274.38

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

ethanol 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:

Tsalkova et al (2012) Isoform-specific antagonists of exchange proteins directly activated by cAMP. *Proc.Natl.Acad.Sci.USA.* **109** 18613. PMID: 23091014.

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