

Certificate of Analysis

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Product Name: GSK 137647

Catalog No.: 5257

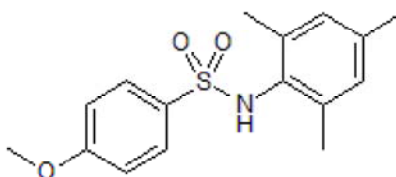
Batch No.: 1

CAS Number: 349085-82-1

IUPAC Name: 4-Methoxy-N-(2,4,6-trimethylphenyl)benzenesulfonamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₉NO₃S
Batch Molecular Weight: 305.39
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
 ethanol to 50 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.46 (Ethyl acetate:Petroleum ether [1:3])
HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	62.93	6.27	4.59
Found	62.85	6.27	4.58

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

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Description:

Potent and selective FFA4 (GPR120) agonist (pEC₅₀ values are 6.3, 6.2 and 6.1 at the human, mouse and rat receptor, respectively). Exhibits ≥100-fold selectivity against a panel of 61 targets including FFA1, FFA2 and FFA3. Enhances glucose-stimulated insulin secretion in MIN6 cells. Induces intracellular calcium accumulation in U2OS cells; this activity is inhibited by AH 7614 (Cat. No. 5256).

Physical and Chemical Properties:

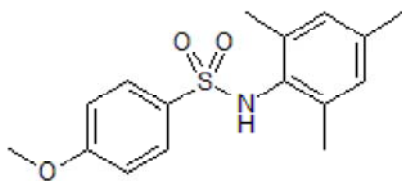
Batch Molecular Formula: C₁₆H₁₉NO₃S

Batch Molecular Weight: 305.39

Physical Appearance: Off White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 50 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.

Licensing Information:

Sold for research purposes under agreement from GlaxoSmithKline

References:

Sparks et al (2014) Identification of diarylsulfonamides as agonists of the free fatty acid receptor 4 (FFA4/GPR120). *Bioorg.Med.Chem.Lett.* **24** 3100. PMID: 24881566.

Martin et al (2012) Lipid-mediated release of GLP-1 by mouse taste buds from circumvallate papillae: putative involvement of GPR120 and impact on taste sensitivity. *J.Lipid Res.* **53** 2256. PMID: 22904345.

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