

Certificate of Analysis

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Product Name: BMS 303141

Catalog No.: 4609

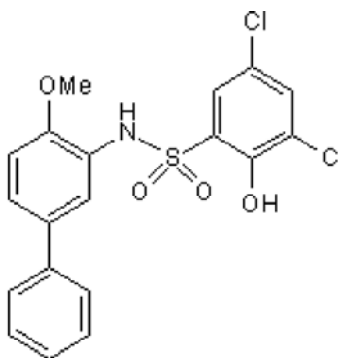
Batch No.: 3

CAS Number: 943962-47-8

IUPAC Name: 3,5-Dichloro-2-hydroxy-*N*-(4-methoxy[1,1'-biphenyl]-3-yl)-benzenesulfonamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₁₅Cl₂NO₄S
Batch Molecular Weight: 424.3
Physical Appearance: Off-white solid
Solubility: DMSO to 10 mM
ethanol to 50 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100.0% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	53.78	3.56	3.3
Found	53.01	3.51	3.26

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

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IUPAC Name: 3,5-Dichloro-2-hydroxy-*N*-(4-methoxy[1,1'-biphenyl]-3-yl)-benzenesulfonamide

Description:

BMS 303141 is an ATP citrate lyase (ACL) inhibitor ($IC_{50} = 0.13 \mu\text{M}$ for human recombinant ACL); blocks lipid synthesis ($IC_{50} = 8 \mu\text{M}$ in HepG2 cells). Displays no cytotoxicity up to a concentration of $50 \mu\text{M}$. Lowers plasma glucose and triglycerides in a mouse model of hyperlipidemia. Orally bioavailable.

Physical and Chemical Properties:

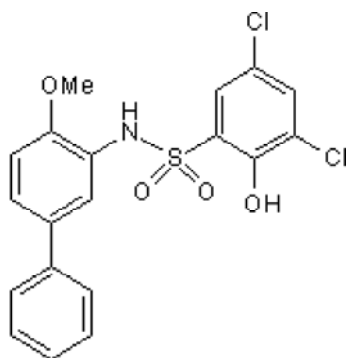
Batch Molecular Formula: $C_{19}H_{15}Cl_2NO_4S$

Batch Molecular Weight: 424.3

Physical Appearance: Off-white solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 10 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 $45-60^{\circ}\text{C}$ 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:

Ma et al (2009) A novel direct homogeneous assay for ATP citrate lyase. *J.Lipid Res.* **50** 2131. PMID: 19286649.

Li et al (2007) 2-hydroxy-*N*-arylbenzenesulfonamides as ATP-citrate lyase inhibitors. *Bioorg.Med.Chem.Lett.* **17** 3208. PMID: 17383874.

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