

Certificate of Analysis

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Product Name: 16673-34-0 NLRP3i

Catalog No.: 6774

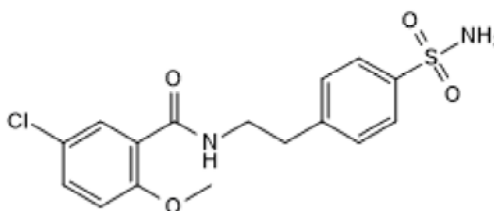
Batch No.: 1

CAS Number: 16673-34-0

IUPAC Name: *N*-[2-[4-(Aminosulfonyl)phenyl]ethyl]-5-chloro-2-methoxybenzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₇ClN₂O₄S
Batch Molecular Weight: 368.84
Physical Appearance: White solid
Solubility: DMSO to 50 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	52.1	4.65	7.6
Found	52.01	4.63	7.67

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

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Description:

16673-34-0 NLRP3i is a NLRP3 inflammasome inhibitor. Inhibits formation of NLRP3 inflammasome and IL-1 β release in LPS and ATP-stimulated mouse macrophages and cardiomyocytes in vitro. Inhibits NLRP3 activation in mouse acute myocardial infarction and peritonitis models without affecting plasma glucose levels. Glyburide synthetic intermediate.

Physical and Chemical Properties:

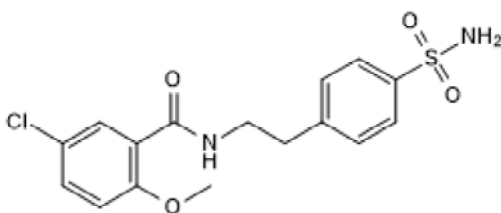
Batch Molecular Formula: C₁₆H₁₇ClN₂O₄S

Batch Molecular Weight: 368.84

Physical Appearance: White solid

Minimum Purity: \geq 98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO 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.

References:

Fulp *et al* (2018) Structural insights of benzenesulfonamide analogues as NLRP3 inflammasome inhibitors: design, synthesis, and biological characterization. *J.Med.Chem.* **61** 5412. PMID: 29877709.

Marchetti *et al* (2014) A novel pharmacologic inhibitor of the NLRP3 inflammasome limits myocardial injury after ischemia-reperfusion in the mouse. *J.Cardiovasc.Pharmacol.* **63** 316. PMID: 24336017.

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