

## Certificate of Analysis

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**Product Name:** 16673-34-0 NLRP3i

**Catalog No.:** 6774

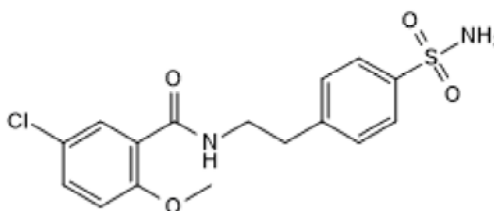
**Batch No.:** 1

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:** C<sub>16</sub>H<sub>17</sub>ClN<sub>2</sub>O<sub>4</sub>S  
**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  
**<sup>1</sup>H 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:**

NLRP3 inflammasome inhibitor. Inhibits formation of NLRP3 inflammasome and IL-1 $\beta$  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:**

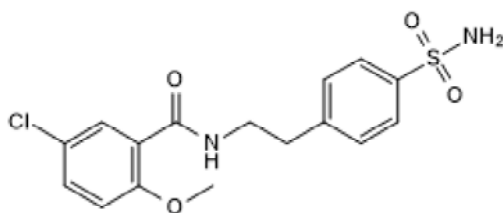
Batch Molecular Formula: C<sub>16</sub>H<sub>17</sub>ClN<sub>2</sub>O<sub>4</sub>S

Batch Molecular Weight: 368.84

Physical Appearance: White solid

**Minimum Purity:** >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.

**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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