1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** $C_{16}H_{17}ClN_2O_4S$
- **Batch Molecular Weight:** 368.84
- **Physical Appearance:** White solid
- **Solubility:** DMSO to 50 mM
- **Storage:** Store at +4°C

2. ANALYTICAL DATA

- **HPLC:** Shows 98.9% purity
- **$^1$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
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

Description:
NLRP3 inflammasome inhibitor. Inhibits formation of NLRP3 inflammasome and IL-1β 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: C₁₆H₁₁ClIN₂O₄S
Batch Molecular Weight: 368.84
Physical Appearance: White solid
Minimum Purity: >98%

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: