

Product Data Sheet

Product Name: NLRP3-IN-2

Cat. No.: GC50569

Chemical Properties

Cas. No. 16673-34-0

SMILES COC1=C(C(NCCC2=CC=C(S(N)(=O)=O)C=C2)=O)C=C(C=C1)Cl

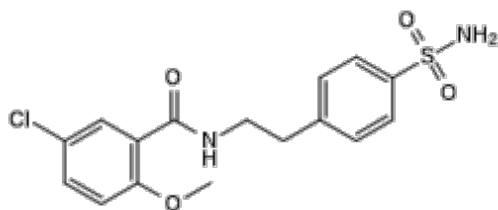
Formula C₁₆H₁₇ClN₂O₄S M.Wt 368.84

Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, DMSO:PBS (pH 7.2) (1:7): 0.14 mg/ml
Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

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.

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

Caution: Product has not been fully validated for medical applications. For research use only.

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