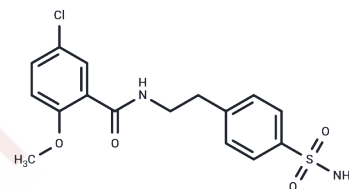


NLRP3-IN-2

Chemical Properties

CAS No. :	16673-34-0
Formula:	C ₁₆ H ₁₇ ClN ₂ O ₄ S
Molecular Weight:	368.84
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	NLRP3-IN-2 (5-Chloro-N-(p-sulfamoylphenethyl)-o-anisamide), an intermediate capable of synthesizing glibenclamide, exerts an inhibitory effect on the formation of NLRP3 inflammatory vesicles in cardiomyocytes, limiting infarct size after myocardial ischemia/reperfusion in mice and has no effect on metabolism.
Targets(IC50)	NOD-like Receptor (NLR),NOD

Solubility Information

Solubility	DMSO: 55 mg/mL (149.12 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7112 mL	13.556 mL	27.112 mL
5 mM	0.5422 mL	2.7112 mL	5.4224 mL
10 mM	0.2711 mL	1.3556 mL	2.7112 mL
50 mM	0.0542 mL	0.2711 mL	0.5422 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

- Baldwin, A., Brough, D., & Freeman, S. (2015). Inhibiting the Inflammasome: A Chemical Perspective. *Journal Of Medicinal Chemistry*, 59(5), 1691-1710. doi: 10.1021/acs.jmedchem.5b01091
- Marchetti, C., Chojnacki, J., Toldo, S., Mezzaroma, E., Tranchida, N., & Rose, S. et al. (2014). A Novel Pharmacologic Inhibitor of the NLRP3 Inflammasome Limits Myocardial Injury After Ischemia-Reperfusion in the Mouse. *Journal Of Cardiovascular Pharmacology*, 63(4), 316-322. doi: 10.1097/fjc.20200202002002000200020053

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