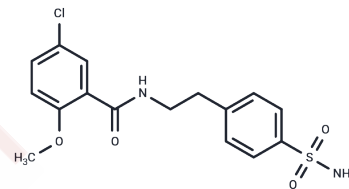


## NLRP3-IN-2

## Chemical Properties

CAS No. :	16673-34-0
Formula:	C <sub>16</sub> H <sub>17</sub> ClN <sub>2</sub> O <sub>4</sub> S
Molecular Weight:	368.84
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## 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)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.42 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481