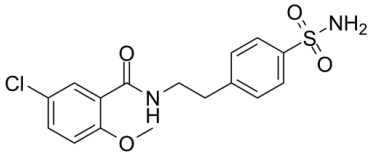
Data Sheet

Product Name:	NLRP3-IN-2
Cat. No.:	CS-W011798
CAS No.:	16673-34-0
Molecular Formula:	$C_{16}H_{17}ClN_2O_4S$
Molecular Weight:	368.84
Target:	NOD-like Receptor (NLR)
Pathway:	Immunology/Inflammation
Solubility:	DMSO : 125 mg/mL (338.90 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

NLRP3-IN-2, an intermediate substrate in the synthesis of glyburide, inhibits the formation of the **NLRP3** inflammasome in cardiomyocytes and limits the infarct size following myocardial ischemia/reperfusion in the mouse, without affecting glucose metabolism[1]. **In Vivo:** NLRP3-IN-2 is well tolerated with no effects on the glucose levels in vivo[1].
NLRP3-IN-2 (100 mg/kg) treatment in a model of AMI due to ischemia+reperfusion significantly inhibits the activity of inflammasome (caspase-1) in the heart by 90% (P<0.01) and reduced infarct size, measured at pathology (by >40%, P<0.01) and with troponin I levels (by >70%, P<0.01) [1].

References:

[1]. Carlo Marchetti, et al. A novel pharmacologic inhibitor of the NLRP3 inflammasome limits myocardial injury after ischemia-reperfusion in the mouse. J Cardiovasc Pharmacol. 2014 Apr;63(4):316-322.

CAIndexNames:

Benzamide, N-[2-[4-(aminosulfonyl)phenyl]ethyl]-5-chloro-2-methoxy-

SMILES:

O=C(NCCC1=CC=C(S(=O)(N)=O)C=C1)C2=CC(Cl)=CC=C2OC

Tel: 610-426-3128 Fax: 888-484-5008 E-mail: sales@ChemScene.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA