

Catalog # 10-3672

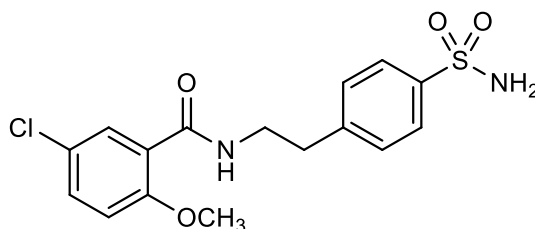
NLRP3i

CAS# 16673-34-0

JC121

4-[2-(5-Chloro-2-methoxybenzamido)ethyl]phenylsulfonamide

Lot # X109375



NLRP3 inflammasome inhibitor which likely acts via interfering with the formation of the NLRP3 inflammasome complex and which exhibits promising *in vivo* protective activities in mouse acute myocardial infarction models. It blocks ASC aggregation, blocks the release of IL-1 β and the activation of caspase-1 in macrophages expressing constitutively active NLRP3 but does not directly inhibit caspase-1.^{1,2} Limits infarct size after myocardial ischemia-reperfusion as well as leukocyte infiltration in a peritonitis model in mice.²

- 1) Fulp *et al.* (2018), *Structural Insights of Benzenesulfonamide Analogues as NLRP3 Inflammasome Inhibitors: Design, Synthesis, and Biological Characterization*; J. Med. Chem., **61** 5412
- 2) Marchetti *et al.* (2014), *A novel pharmacologic inhibitor of the NLRP3 inflammasome limits myocardial injury after ischemia-reperfusion in the mouse*; J. Cardiovas. Pharmacol., **63** 316

PHYSICAL DATA

Molecular Weight:	368.84
Molecular Formula:	C ₁₆ H ₁₇ ClN ₂ O ₄ S
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 45 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at room temperature for up to 3 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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