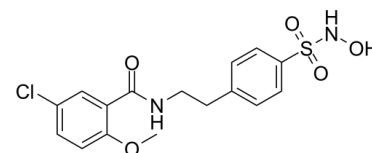


Data Sheet

Product Name:	JC-171
Cat. No.:	CS-0065984
CAS No.:	2112809-98-8
Molecular Formula:	C ₁₆ H ₁₇ ClN ₂ O ₅ S
Molecular Weight:	384.83
Target:	NOD-like Receptor (NLR)
Pathway:	Immunology/Inflammation
Solubility:	DMSO : 250 mg/mL (649.64 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

JC-171 is a selective **NLRP3** inflammasome inhibitor, with an **IC₅₀** of 8.45 μM for inhibiting LPS/ATP-induced interleukin-1β (IL-1β) release from J774A.1 macrophages^[1]. **In Vitro:** JC-171 (0-100 μM) blocks NLRP3 inflammasome activation and IL-1β production in primary macrophages dose dependently^[1]. **In Vivo:** JC-171 treatment delays the progression and reduces the severity of experimental autoimmune encephalomyelitis (EAE) in mouse^[1].

References:

[1]. Chunqing Guo, et al. Development and Characterization of a Hydroxyl-Sulfonamide Analogue, 5-Chloro-N-[2-(4-hydroxysulfamoyl-phenyl)-ethyl]-2-methoxy-benzamide, as a Novel NLRP3 Inflammasome Inhibitor for Potential Treatment of Multiple Sclerosis. ACS Chem Neurosci. 2017 Oct 18;8(10):2194-2201.

CAIndexNames:

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

SMILES:

O=C(NCCC1=CC=C(S(=O)(NO)=O)C=C1)C2=CC(Cl)=CC=C2OC

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

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