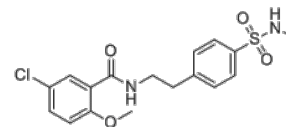


Product Name : JC124
Cat. No. : PC-20303
CAS No. : 1638611-48-9
Molecular Formula : C₁₇H₁₉ClN₂O₄S
Molecular Weight : 382.86
Target : NOD-like Receptor (NLR)
Solubility : 10 mM in DMSO



Biological Activity

JC124 is a potent selective **NLRP3** inflammasome inhibitor with IC₅₀ of 3.25 μM for inhibition of IL-1β release by LPS/ATP-stimulated J774A.1 cells.

JC124 (50 mg/kg daily, i.p. injection) inhibits the NLRP3 signaling in TgCRND8 mice, decreases Aβ deposition, reduces β-cleavage of APP and Aβ production.

JC124 reduces microgliosis but increases astrogliosis in TgCRND8 mice,.

JC124 reduces oxidative stress in TgCRND8 mice after long-term treatment, improves the level of synaptic marker.

References

Yin J, et al. *Mol Neurobiol.* 2018 Mar;55(3):1977-1987.

Fulp J, et al. *J Med Chem.* 2018 Jun 28;61(12):5412-5423.

Marchetti C, et al. *J Cardiovasc Pharmacol.* 2015;66(1):1-8.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com