JC2-11

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-152670 937820-89-8 C ₁₇ H ₁₅ FO ₄ 302.3 NOD-like Receptor (NLR); AIM2 Immunology/Inflammation 4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture	HO F	
	and light)		

SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (330.80 mM)

* "≥" means soluble, but saturation unknown.

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.3080 mL	16.5399 mL	33.0797 mL
	5 mM	0.6616 mL	3.3080 mL	6.6159 mL
	10 mM	0.3308 mL	1.6540 mL	3.3080 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIV	
Description	JC2-11 is an inhibitor of inflammatory corpuscles. JC2-11 inhibits domain-containing protein NLRC 4, absent in melanoma 2 (AIM 2) and non-canonical (NC) inflammatory corpuscles. JC2-11 reduces the secretion of caspase-1 (p20), the cleavage of gasdermin D (GSDMD), and the releases of IL-1β and lactate dehydrogenases (LDH) in inflammatory bodies. JC2-11 inhibits the activation of inflammatory bodies by destroying the production of reactive oxygen species and the activity of caspase-1 [1].
IC ₅₀ & Target	NLRP3 inflammasome
In Vivo	JC2-11 (250 μg/mouse; i.p.; single dose) significantly inhibits the release of caspase-1 (p20) and IL-1β in non-canonical (NC) inflammatory bodies, and weakens the activation of NC inflammatory bodies of C57BL/6 mice model ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Animal Model: C57BL/6 mice (8 weeks, female) ^[1] .



Dosage:	250 μg/mouse.
Administration:	Intraperitoneal injection; single dose.
Result:	Exhibited inhibitory effect on NC inflammatory body.

REFERENCES

[1]. Lee G, et al, JC2-11, a benzylideneacetophenone derivative, attenuates inflammasome activation. Sci Rep. 2022 Dec 28;12(1):22484.

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

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