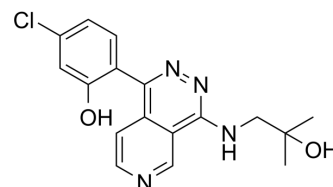


NLRP3-IN-11

Cat. No.:	HY-148187
CAS No.:	2769040-91-5
Molecular Formula:	C ₁₇ H ₁₇ ClN ₄ O ₂
Molecular Weight:	344.8
Target:	NOD-like Receptor (NLR)
Pathway:	Immunology/Inflammation
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (362.53 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.9002 mL	14.5012 mL	29.0023 mL
				5 mM	0.5800 mL	2.9002 mL	5.8005 mL
				10 mM	0.2900 mL	1.4501 mL	2.9002 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (6.03 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (6.03 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (6.03 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	NLRP3-IN-11 is a NLR family pyrin domain containing 3 (NLRP3) proteins inhibitor. NLRP3-IN-11 has biological activity for NLRP3 with an IC ₅₀ value of <0.3 μM. NLRP3-IN-11 can be used for the research of inflammatory and degenerative diseases including NASH, atherosclerosis and other cardiovascular diseases, Alzheimer's disease, Parkinson's disease, diabetes, gout, and numerous other autoinflammatory diseases ^[1] .
IC ₅₀ & Target	NLRP3 <0.3 μM (IC ₅₀)
In Vitro	NLRP3-IN-11 has biological activity with an IC ₅₀ value of <0.3 μM in human PBMC NLRP3 assay ^[1] MCE has not independently

confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. HY-W048205, et al. Compounds for inhibiting NLRP3 and uses thereof. Patent. US11319319B1.

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

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