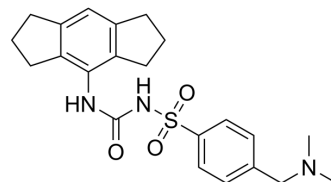


NLRP3-IN-20

Cat. No.:	HY-156121
CAS No.:	2428478-22-0
Molecular Formula:	C ₂₂ H ₂₇ N ₃ O ₃ S
Molecular Weight:	413.53
Target:	NOD-like Receptor (NLR)
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	NLRP3-IN-20 (compound 11) is an orally available inhibitor of the NLRP3 inflammasome with an IC ₅₀ of 25 nM for IL-1β secretion. NLRP3-IN-20 has excellent pharmacokinetic properties and demonstrated significant efficacy in models of non-alcoholic steatohepatitis, fatal septic shock, and colitis ^[1] .									
IC₅₀ & Target	NLRP3 ^[1]									
In Vivo	Pharmacokinetic Analysis in Mouse ^[1]									
	Route	Dose (mg/kg)	T _{1/2} (h)	T _{max} (h)	C _{max} (ng/mL)	AUC _{0-inf} (ng·h/mL)	MRT _{0-inf} (h)	V _z (mL/kg)	Cl (mL/h/kg)	F (%)
	i.v.	5	4.01	0.083	22567	130240/	5.30	226	38.8	
	p.o.	10	3.50	0.667	33867	221955	4.79	/	/	85.21
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.									

REFERENCES

[1]. Li Z, et al. Novel Sulfonyleurea-Based NLRP3 Inflammasome Inhibitor for Efficient Treatment of Nonalcoholic Steatohepatitis, Endotoxic Shock, and Colitis. J Med Chem. 2023 Sep 11... .

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

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