

Product Data Sheet

HMGB1-IN-1

Cat. No.: HY-155751 Molecular Formula: $C_{57}H_{75}N_3O_{15}$ Molecular Weight: 1042.22

Target: Interleukin Related; TNF Receptor; NOD-like Receptor (NLR)

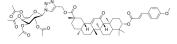
Pathway: Immunology/Inflammation; Apoptosis

In solvent

Storage: Powder -20°C 3 years

4°C 2 years -80°C 6 months

-20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO: 125 mg/mL (119.94 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	0.9595 mL	4.7975 mL	9.5949 mL
	5 mM	0.1919 mL	0.9595 mL	1.9190 mL
	10 mM	0.0959 mL	0.4797 mL	0.9595 mL

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

BIOLOGICAL ACTIVITY

Description	` '	splays strong NO inhibitory effect in RAW264.7 cells with IC $_{50}$ value of 15.9 \pm 0.6 μ M. HMGB1-IN-LRP3 pathway. HMGB1-IN-1 shows good anti-inflammatory activity and good anti-sepsis	
IC ₅₀ & Target	IL-1β	NLRP3	
In Vitro	HMGB1-IN-1 (compound 6) (0-30 μ M, 0-48 h) not only decreases IL-1 β and TNF- α levels in RAW264.7 cells and HK-2 cells, but also down-regulates the levels of NLRP3, P-NF- κ B p65 and HMGB1 in activated HK-2 cells in a dose-dependent manner ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo		5-30 mg/kg, intraperitoneal injection) shows good anti-inflammatory activity ^[1] . onfirmed the accuracy of these methods. They are for reference only. C57BL/6 mice (8-10 weeks old, 20±5 g) ^[1]	

Dosage:	15, 30 mg/kg
Administration:	Intraperitoneal injection, once a day for 7 consecutive days
Result:	Decreased the expression levels of IL-1 β to 70.1% at 15 mg/kg, and further decreased to 31.4% at 30 mg/kg. Downregulated TNF- α to 37.3%.

REFERENCES

[1]. Qiang X, et al. Synthesis of glycyrrhizin analogues as HMGB1 inhibitors and their activity against sepsis in acute kidney injury. Eur J Med Chem. 2023 Nov 5;259:115696.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA

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