## **HOIPIN-8**

®

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Cat. No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-122882 C <sub>23</sub> H <sub>15</sub> F <sub>2</sub> N <sub>4</sub> NaO <sub>3</sub> 456.38 E1/E2/E3 Enzyme Metabolic Enzyme/Protease -20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)	ONa ONA F N N O F
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### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (2	DMSO : 100 mg/mL (219.12 mM; Need ultrasonic)					
		Solvent Mass Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	2.1912 mL	10.9558 mL	21.9116 mL		
		5 mM	0.4382 mL	2.1912 mL	4.3823 mL		
		10 mM	0.2191 mL	1.0956 mL	2.1912 mL		
	Please refer to the so	lubility information to select the app	propriate solvent.	1			
In Vivo		1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 1.25 mg/mL (2.74 mM); Clear solution; Need ultrasonic					
		2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.25 mg/mL (2.74 mM); Clear solution					
		3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 1.25 mg/mL (2.74 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY				
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Description	HOIPIN-8 is a potent inhibitor of linear ubiquitin chain assembly complex (LUBAC) with an IC <sub>50</sub> of 11 nM. HOIPIN-8 is a HOIPIN-1 derivative with enhanced the potency by 255-fold in the petit-LUBAC inhibition, and 10-fold and 4-fold in the LUBAC- and TNF-α-mediated NF-κB activation, respectively than HOIPIN-1. HOIPIN-1 is a promising tool to explore the cellular functions of LUBAC <sup>[1]</sup> .			
In Vitro	HOIPIN-8 (0-100 μM; 72 hours) has little cell toxicity on A549 cells, and exhibits an IC <sub>50</sub> value of 100 μM <sup>[1]</sup> . HOIPIN-8 (0-10 μM; 24 hours) has an inhibitory effect over 10-fold enhancement over that of HOIPIN-1 on NF-κB activation, exhibits an IC <sub>50</sub> value of 0.42?μM in HEK293T cells <sup>[1]</sup> . HOIPIN-8 (0-30 μM; NF-κB?luciferase?reporter is transfected into cells for 18 hours; then with 10?ng/ml TNF-α for 6?h)			

# Product Data Sheet

induced expression of N	ements of the potency than HOIPIN-1, the IC <sub>50</sub> value is 11.9 μM. It also effectively reduces IL-1β- IF-κB target genes, such as?ICAM1?and?IL-6 as compared to HOIPIN-1 <sup>[1]</sup> . ntly confirmed the accuracy of these methods. They are for reference only.	
Cell Line:	Human lung carcinoma A549 cells, HEK293T cells	
Concentration:	0 μΜ; 1 μΜ; 3 μΜ; 10 μΜ; 30 μΜ; 100 μΜ	
Incubation Time:	72 hours	
Result:	Did not effect A549 cell viability.	
RT-PCR <sup>[1]</sup>		
Cell Line:	HEK293T cells	
Concentration:	0 μΜ; 0.3 μΜ; 1 μΜ; 10 μΜ; 30 μΜ	
Incubation Time:	24 hours	
Result:	Had an inhibitory effect on the inflammatory cytokine-induced NF-кВ activation pathway.	

#### **CUSTOMER VALIDATION**

• bioRxiv. 2023 Oct 6.

See more customer validations on www.MedChemExpress.com

### REFERENCES

[1]. Ken Katsuya, et al. Small-molecule Inhibitors of Linear Ubiquitin Chain Assembly Complex (LUBAC), HOIPINs, Suppress NF-KB Signaling. Biochem Biophys Res Commun. 2019 Feb 12;509(3):700-706.

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

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