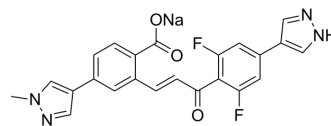


HOIPIN-8

Cat. No.:	HY-122882
Molecular Formula:	C ₂₃ H ₁₅ F ₂ N ₄ NaO ₃
Molecular Weight:	456.38
Target:	E1/E2/E3 Enzyme
Pathway:	Metabolic Enzyme/Protease
Storage:	-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)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (219.12 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		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 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: 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

Description	HOIPIN-8 is a potent inhibitor of linear ubiquitin chain assembly complex (LUBAC) with an IC ₅₀ 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 ^[1] .
In Vitro	HOIPIN-8 (0-100 μM 72 hours) A549 IC ₅₀ 100 μM ^[1] HOIPIN-8 (0-10 μM 24 hours) NF-κB HOIPIN-1 10 IC ₅₀ 0.42 μM HEK293T ^[1] HOIPIN-8 (0-30 μM NF-κB) 18 IC ₅₀ 10 ng/mL TNF-α 6h HOIPIN-1 4 IC ₅₀ 11.9 μM ^[1] HOIPIN-1 IL-1β NF-κB (ICAM1 IL-6) ^[1]

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay^[1]

Cell Line:	Human lung carcinoma A549 cells, HEK293T cells
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Concentration:	0 μ M; 1 μ M; 3 μ M; 10 μ M; 30 μ M; 100 μ M
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Incubation Time:	72 hours
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Result:	Did not effect A549 cell viability.
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RT-PCR^[1]

Cell Line:	HEK293T cells
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Concentration:	0 μ M; 0.3 μ M; 1 μ M; 10 μ M; 30 μ M
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Incubation Time:	24 hours
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Result:	Had an inhibitory effect on the inflammatory cytokine-induced NF- κ B activation pathway.
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REFERENCES

[1]. Ken Katsuya, et al. Small-molecule Inhibitors of Linear Ubiquitin Chain Assembly Complex (LUBAC), HOIPINs, Suppress NF- κ B 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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