RIPK1-IN-11

Cat. No.:	HY-144276	
CAS No.:	2173557-02-1	
Molecular Formula:	C ₂₃ H ₂₄ N ₄ O ₄ S	N
Molecular Weight:	452.53	
Target:	RIP kinase	
Pathway:	Apoptosis	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

Description	RIPK1-IN-11 is a potent and orally active RI human and mouse cells (EC ₅₀ =17-30 nM). A	PK1 inhibitor (K _d =9.2 nM; IC ₅₀ =67 nM). F .nti-inflammatory activity ^[1] .	RIPK1-IN-11 inhibits necroptosis in both	
In Vitro	RIPK1-IN-11 (compound 70) (24 hours; for 1h prior to the treatment of TNFα) efficiently blocks necroptosis induced by TNFα in both human and mouse cells (EC ₅₀ =17-30 nM) ^[1] . Pharmacokinetic profiles of compound 70 in male SD rats			
		IV (2 mg/kg)	PO (10 mg/kg)	
	T _{max} (h)		1.2	
	C _{max} (ng/mL)	1330	1241	
	AUC ₀₋₂₄ (ng/mL⊠h)	1208	3827	
	t _{1/2} (ng/mL)	1.0	1.7	
	CL (mL/min/kg)	33		
	Vd, ss (L/kg)	2.4		
	F (%)		63%	
	MCE has not independently confirmed the	accuracy of these methods. They are fo	r reference only.	
In Vivo	RIPK1-IN-11 (3 mg/kg; i.p. for 30 min, follow induced SIRS model ^[1] . RIPK1-IN-11 (5 mg/kg, 25 mg/kg; p.o.; 7 day	ved by injection with TNFα) blocks hypc rs; C57BL/6 mouse) exhibits no obvious	thermia and death in mice in the TNF α -toxicity in mice ^[1] .	

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Product Data Sheet



Animal Model:	C57BL/6 female mice (TNF-induced systemic inflammatory response syndrome) ^[1]
Dosage:	3 mg/kg
Administration:	i.p. for 30 min, followed by injection with $TNF\alpha$ (0.25 $\mu g/g)$
Result:	Significantly reduced TNF α -induced temperature loss and ameliorated lethal shock ir mice.

REFERENCES

[1]. Li Z, Hao Y, Yang C, et al. Design, synthesis, and evaluation of potent RIPK1 inhibitors with in vivo anti-inflammatory activity. Eur J Med Chem. 2022;228:114036.

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

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