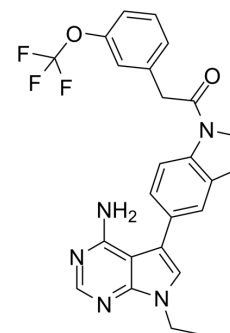


RIPK1-IN-7

Cat. No.:	HY-119933		
CAS No.:	2300982-44-7		
Molecular Formula:	C ₂₅ H ₂₂ F ₃ N ₅ O ₂		
Molecular Weight:	481.47		
Target:	RIP kinase		
Pathway:	Apoptosis		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 62.5 mg/mL (129.81 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.0770 mL	10.3849 mL	20.7697 mL
		5 mM	0.4154 mL	2.0770 mL	4.1539 mL
10 mM		0.2077 mL	1.0385 mL	2.0770 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: ≥ 2.08 mg/mL (4.32 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.32 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	RIPK1-IN-7 is a potent and selective RIPK1 inhibitor with a K _d of 4 nM and an enzymatic IC ₅₀ of 11 nM. RIPK1-IN-7 exhibits excellent antimetastasis activity in the experimental B16 melanoma lung metastasis model ^[1] .
IC₅₀ & Target	IC ₅₀ : 11 nM (RIPK1) ^[1] K _d : 4 nM (RIPK1) ^[1]
In Vitro	RIPK1-IN-7 shows potent cell protection effect in the TSZ-induced HT29 cell necroptosis model with an EC ₅₀ of 2nM ^[1] . RIPK1-IN-7 displays considerable activity against several other kinases, such as Flt4, TrkA, TrkB, TrkC, Axl, HRI, Mer, and MAP4K5 with IC ₅₀ s of 20, 26, 8, 7, 35, 26, 29, and 27 nM, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Li Y, et al. Identification of 5-(2,3-Dihydro-1 H-indol-5-yl)-7 H-pyrrolo[2,3- d]pyrimidin-4-amine Derivatives as a New Class of Receptor-Interacting Protein Kinase 1 (RIPK1) Inhibitors, Which Showed Potent Activity in a Tumor Metastasis Model. J Med Chem

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

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