Necrostatin 2 racemate

Cat. No.:	HY-14622A		
CAS No.:	852391-15-2		
Molecular Formula:	C ₁₃ H ₁₂ ClN ₃ O ₂		
Molecular Weight:	277.71		
Target:	RIP kinase		
Pathway:	Apoptosis		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	1 year
		-20°C	6 months

SOLVENT & SOLUBILITY

Preparing Stock Solutions		Mass					
		Solvent Concentration	1 mg	5 mg	10 mg		
		1 mM	3.6009 mL	18.0044 mL	36.0088 mL		
	5 mM	0.7202 mL	3.6009 mL	7.2018 mL			
		10 mM	0.3601 mL	1.8004 mL	3.6009 mL		
	Please refer to the so	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: ≥ 3 mg/mL (10.80 mM); Clear solution					
		2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 3 mg/mL (10.80 mM); Clear solution					
		 Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 3 mg/mL (10.80 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	Necrostatin 2 racemate (Nec-1S), the <u>Necrostatin-1</u> (HY-15760) stable, is a potent and specific RIPK1 inhibitor lacking the IDO-targeting effect ^[1] .		
IC ₅₀ & Target	RIPK1	RIPK1	
In Vitro	Necrostatin 2 racemate (Nec-1S) (1-100 μ M; 1 h) potently inhibits RIPK1 autophosphorylation in a dose-dependent manner		

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	[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo	Necrostatin 2 racemate (Nec-1S) (6 mg/kg; i.v.; once) protects against TNF-induced systemic inflammatory response syndrome (SIRS) without sensitization effect ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	Female C57BL/6J WT mice, SIRS model ^[1]	
	Dosage:	0.6 mg/kg or 6 mg/kg	
	Administration:	Intravenous injection, once	
	Result:	Showed protective effect at 6 mg/kg.	

CUSTOMER VALIDATION

- Nat Commun. 2021 Jun 30;12(1):4050.
- Cell Death Dis. 2023 Jan 5;14(1):6.
- J Cachexia Sarcopenia Muscle. 2022 Jun 30.
- FASEB J. 2022 Dec;36(12):e22625.
- bioRxiv. 2023 Oct 2.

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REFERENCES

[1]. Takahashi N, et al. Necrostatin-1 analogues: critical issues on the specificity, activity and in vivo use in experimental disease models. Cell Death Dis. 2012 Nov 29;3:e437.

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

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