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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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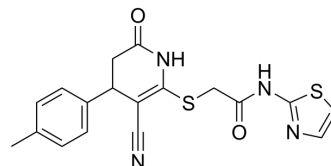
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Necrostatin-34

Cat. No.:	HY-132203
CAS No.:	375835-43-1
Molecular Formula:	C ₁₈ H ₁₆ N ₄ O ₂ S ₂
Molecular Weight:	384.48
Target:	RIP kinase
Pathway:	Apoptosis
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (325.11 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM	2.6009 mL	13.0046 mL	26.0092 mL	
		5 mM	0.5202 mL	2.6009 mL	5.2018 mL	
		10 mM	0.2601 mL	1.3005 mL	2.6009 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 (5.41 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.41 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Necrostatin-34 (Nec-34), a RIPK1 kinase inhibitor, stabilizes RIPK1 kinase in an inactive conformation by occupying a distinct binding pocket in the kinase domain ^[1] .
IC ₅₀ & Target	RIPK1
In Vitro	Necrostatin-34 (Nec-34) exhibits IC₅₀ values of 667 nM and 134 nM for TNFα in FADD def-Jurkat cells and L939 cells, respectively^[1]. Necrostatin-34 (Nec-34, 10 μM) inhibits the dimerization-induced RIPK1 activation as examined by phosphorylation of Ser166 (p-S166) of RIPK1, a biomarker for RIPK1 activation^[1]. Necrostatin-34 (Nec-34) may block TNFα-induced complex II formation by inhibiting the activation of RIPK1 kinase^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis^[1]

Cell Line:	RIPK1 knockout L929 cells transfected with an expressing vector encoding an inducible and dimerizable RIPK1 fused with FKBP at the C-terminus.
Concentration:	10 μ M.
Incubation Time:	30 min (and then 100 ng/mL TNF α was added for indicated periods of time).
Result:	Downregulated p-S166 levels.

REFERENCES

[1]. Huan Meng, et al. Discovery of a cooperative mode of inhibiting RIPK1 kinase. Cell Discov. 2021 Jun 1;7(1):41.

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

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