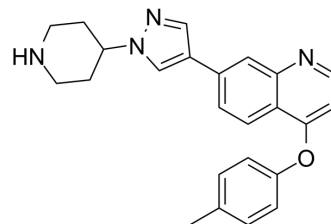


HS-1371

Cat. No.:	HY-114349		
CAS No.:	2158197-70-5		
Molecular Formula:	C ₂₄ H ₂₄ N ₄ O		
Molecular Weight:	384.47		
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 : 16.67 mg/mL (43.36 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		2.6010 mL	13.0049 mL	26.0098 mL
		5 mM		0.5202 mL	2.6010 mL	5.2020 mL
10 mM			0.2601 mL	1.3005 mL	2.6010 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1.67 mg/mL (4.34 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.67 mg/mL (4.34 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.67 mg/mL (4.34 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	HS-1371 is a potent and ATP-competitive receptor-interacting protein kinase 3 (RIP3) inhibitor with an IC ₅₀ of 20.8 nM ^[1] .
IC₅₀ & Target	IC ₅₀ : 20.8 nM (RIP3) ^[1]
In Vitro	HS-1371 directly binds to RIP3 in an ATP-competitive and time-independent manner. HS-1371 has an inhibitory effect on RIP3 kinase activity in various cell lines ^[1] .

HS-1371 (0.1, 1, 5, 10, 20 μ M, 9 h) can block RIP3 S227 phosphorylation^[1].

HS-1371 (0.1, 1, 5, 10 μ M, 24 h) rescues cells from RIP3-dependent necroptotic cell death but not apoptotic cell death^[1].

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

Western Blot Analysis^[1]

Cell Line:	HT-29 cells
Concentration:	0.1, 1, 5, 10, 20 μ M
Incubation Time:	9 hours
Result:	Showed an inhibitory effect on S227 auto-phosphorylation of RIP3 ^[1] .

CUSTOMER VALIDATION

- Nature. 2023 Mar;615(7950):158-167.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Park HH, et al. HS-1371, a novel kinase inhibitor of RIP3-mediated necroptosis. Exp Mol Med. 2018 Sep 20;50(9):125.

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

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