

HS-1371

## Chemical Properties

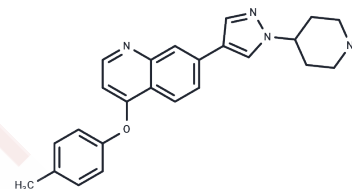
CAS No. : 2158197-70-5

Formula: C<sub>24</sub>H<sub>24</sub>N<sub>4</sub>O

Molecular Weight: 384.47

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	HS-1371 is a novel kinase inhibitor of receptor-interacting protein kinase 3 (RIP3) with an IC <sub>50</sub> of 20.8 nM.
Targets(IC <sub>50</sub> )	RIP kinase
In vitro	HS-1371 directly binds to RIP3 in an ATP-competitive and time-independent manner, inhibiting TNF-induced necroptosis without affecting TNF-induced apoptosis. This indicates a specific inhibitory effect on RIP3-mediated necroptosis through the suppression of RIP3 kinase activity. HS-1371 may serve as a potential preventive or therapeutic agent for diseases involving RIP3 hyperactivation.

## Solubility Information

Solubility	DMSO: 16.67 mg/mL (43.36 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (2.6 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

---

	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.601 mL	13.0049 mL	26.0098 mL
5 mM	0.5202 mL	2.601 mL	5.202 mL
10 mM	0.2601 mL	1.3005 mL	2.601 mL
50 mM	0.052 mL	0.2601 mL	0.5202 mL

---

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

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

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481