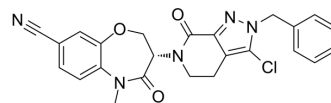


RIP1 kinase inhibitor 1

Cat. No.:	HY-111409
CAS No.:	2095515-38-9
Molecular Formula:	C ₂₄ H ₂₀ ClN ₅ O ₃
Molecular Weight:	461.9
Target:	RIP kinase
Pathway:	Apoptosis
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 200 mg/mL (432.99 mM; Need ultrasonic)																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>2.1650 mL</td> <td>10.8249 mL</td> <td>21.6497 mL</td> </tr> <tr> <td>5 mM</td> <td>0.4330 mL</td> <td>2.1650 mL</td> <td>4.3299 mL</td> </tr> <tr> <td>10 mM</td> <td>0.2165 mL</td> <td>1.0825 mL</td> <td>2.1650 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	2.1650 mL	10.8249 mL	21.6497 mL	5 mM	0.4330 mL	2.1650 mL	4.3299 mL	10 mM	0.2165 mL	1.0825 mL	2.1650 mL
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	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: 5 mg/mL (10.82 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 5 mg/mL (10.82 mM); Clear solution 																					

BIOLOGICAL ACTIVITY

Description	RIP1 kinase inhibitor 1 (compound 22) is a highly potent, orally available, and brain-penetrating RIP1 kinase inhibitor (pK _i = 9.04) ^[1] .
IC₅₀ & Target	pK _i : 9.04 (RIP1 kinase) ^[1]
In Vitro	RIP1 kinase inhibitor 1 (compound 22) strongly suppresses necroptotic cell death and phosphorylation of MLKL (pMLKL) in human colorectal adenocarcinoma HT-29 cells (necroptosis, IC ₅₀ =2 nM; pMLKL, IC ₅₀ =1.3 nM) as well as mouse L-cells NCTC 929 (necroptosis, IC ₅₀ =15 nM; pMLKL, IC ₅₀ =2.7 nM) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Yoshikawa M, et al. Discovery of 7-Oxo-2,4,5,7-tetrahydro-6 H-pyrazolo[3,4- c]pyridine Derivatives as Potent, Orally Available, and Brain-Penetrating Receptor Interacting Protein 1 (RIP1) Kinase Inhibitors: Analysis of Structure-Kinetic Relationships. J Me

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA