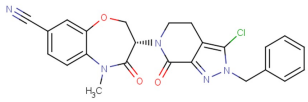
Data Sheet (Cat.No.T12725)

TargetMol
A DRUG SCREENING EXPERT

RIP1 kinase inhibitor 1

Chemical Properties



CAS No.:	2095515-38-9
Formula:	C24H20ClN5O3
Molecular Weight:	461.9
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	RIP1 kinase inhibitor 1 is an orally available and brain-penetrating inhibitor of RIP1 kinase with pKi of 9.04.
Targets(IC_{50})	RIP1 kinase: pki:9.04
In vitro	RIP1 kinase inhibitor 1 strongly suppresses necroptotic cell death and phosphorylation of MLKL(pMLKL) in human colorectal adenocarcinoma HT-29 cells with IC50 of 2 nM and 1.3 nM for nectoptosis and pMLKL) as well as mouse L-cells NCTC 929 (nectoptosis, IC50=15 nM; pMLKL, IC50=2.7 nM).

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.165 mL	10.825 mL	21.65 mL
5 mM	0.433 mL	2.165 mL	4.33 mL
10 mM	0.216 mL	1.082 mL	2.165 mL
50 mM	0.043 mL	0.216 mL	0.433 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Yoshikawa M, et al. Discovery of 7-Oxo-2,4,5,7-tetrahydro-6 H-pyrazolo[3,4- c]pyridine Derivatives as Potent, OrallyAvailable, and Brain-Penetrating Receptor Interacting Protein 1 (RIP1) Kinase Inhibitors: Analysis of Structure-Kinetic Relationships. J Med Chem. 2018 Mar 22;61(6):2384-2409.

Inhibitors · Natural Compounds · Compound Libraries

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