

RIPK-IN-4

Chemical Properties

CAS No. : 2141969-56-2

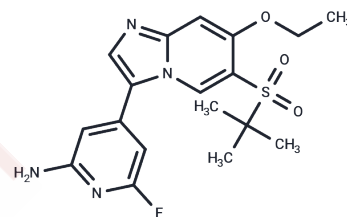
Formula: C₁₈H₂₁FN₄O₃S

Molecular Weight: 392.45

Store at low temperature

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	RIPK-IN-4 is a highly effective and selective small-molecule inhibitor of receptor-interacting protein kinase 2 (RIPK2) that demonstrates potent biochemical activity with an IC ₅₀ value of 3 nM, and it is further distinguished by excellent oral bioavailability, making it a valuable research tool for investigating RIPK2-mediated signaling pathways, innate immune responses, and inflammatory disease mechanisms in both in vitro and in vivo experimental systems.
Targets(IC ₅₀)	RIP kinase
In vitro	Method: Liver microsomal stability assays were conducted using mouse, rat, and human liver microsomes. Result: RIPK-IN-4 exhibited liver microsomal extraction ratios of 0.59 in mice, 0.45 in rats, and 0.39 in humans[1].

Solubility Information

Solubility	DMSO: 24 mg/mL (61.15 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5481 mL	12.7405 mL	25.481 mL
5 mM	0.5096 mL	2.5481 mL	5.0962 mL
10 mM	0.2548 mL	1.274 mL	2.5481 mL
50 mM	0.051 mL	0.2548 mL	0.5096 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

He X, et al. Identification of Potent and Selective RIPK2 Inhibitors for the Treatment of Inflammatory Diseases. ACS Med Chem Lett. 2017 Sep 27;8(10):1048-1053.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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