

KWCN-41

Chemical Properties

CAS No. : 2913223-17-1

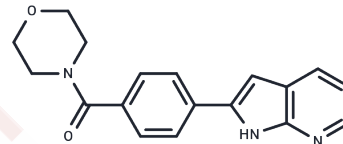
Formula: C₁₈H₁₇N₃O₂

Molecular Weight: 307.35

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	KWCN-41 is a potent and selective RIPK1 kinase inhibitor (IC ₅₀ =88 nM) that specifically inhibits necrosis without affecting apoptosis and exhibits anti-inflammatory effects.
Targets(IC ₅₀)	Necroptosis,RIP kinase
In vitro	KWCN-41 (10/50/50 nM; 1 h) dose-dependently inhibited necrosis in L929 cells [1]. KWCN-41 (10/50/250 nM; 0.5/1.5/2.5 h) inhibited phosphorylation of RIPK1/3 and MLKL in L929 cells [1]. KWCN-41 (0-10 μM) dose-dependently inhibited TZ-induced necrosis in L929 cells and suppressed TSZ-induced necrosis in HT-29 and U937 cells [1].
In vivo	KWCN-41 (10/25/40 mg/kg; intraperitoneal injection; 72 hours) dose-dependently inhibited TNF-α-induced mouse mortality and improved survival rates [1].

Solubility Information

Solubility	DMSO: 80 mg/mL (260.29 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	3.2536 mL	16.2681 mL	32.5362 mL
5 mM	0.6507 mL	3.2536 mL	6.5072 mL
10 mM	0.3254 mL	1.6268 mL	3.2536 mL
50 mM	0.0651 mL	0.3254 mL	0.6507 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

Cui N, et al. Discovery of Sibiriline derivatives as novel receptor-interacting protein kinase 1 inhibitors. Eur J Med Chem. 2023;250:115190.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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