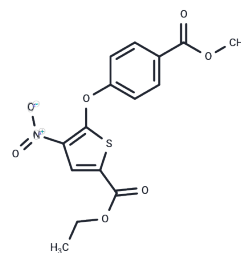


Wu-5

Chemical Properties

CAS No. : 2630378-05-9
 Formula: C₁₅H₁₃N₂O₇S
 Molecular Weight: 351.33
 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	Wu-5 is a potent USP10 inhibitor that inhibits FLT3 and AMPK pathways, promoting the breakdown of FLT3-ITD and inducing apoptosis.
Targets(IC50)	Apoptosis,FLT,AMPK,DUB
In vitro	Wu-5 (10 μM; 24, 48, 72 h) selectively induces death in FLT3-ITD positive AML cells[1]. Wu-5 (1, 2.5, 5 μM; 24, 48 h) induces apoptosis in FLT3-ITD positive AML cells in a time- and concentration-dependent manner[1]. Wu-5 (5 μM; 24 h) induces degradation of FLT3-ITD through the proteasome pathway[1].

Solubility Information

Solubility	DMSO: 41.67 mg/mL (118.61 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	2.8463 mL	14.2316 mL	28.4633 mL
5 mM	0.5693 mL	2.8463 mL	5.6927 mL
10 mM	0.2846 mL	1.4232 mL	2.8463 mL
50 mM	0.0569 mL	0.2846 mL	0.5693 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

Miao Yu, et al. Wu-5, a novel USP10 inhibitor, enhances crenolanib-induced FLT3-ITD-positive AML cell death via inhibiting FLT3 and AMPK pathways. Acta Pharmacol Sin. 2021 Apr;42(4):604-612.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

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