

FT709

Chemical Properties

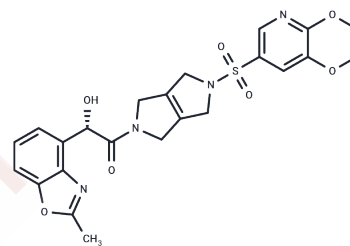
CAS No. : 2413991-74-7

Formula: C₂₃H₂₂N₄O₇S

Molecular Weight: 498.51

Storage: Store at low temperature, Keep away from moisture
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	FT709 is a selective USP9X deubiquitinating enzyme inhibitor (IC ₅₀ =82 nM) that reduces Makorin and ZNF598 levels, impairing ribosomal quality control pathways.
Targets(IC ₅₀)	DUB
In vitro	In HCT116 cells, treatment with 10 μM FT709 for 24 hours downregulated the expression levels of ZNF598 (a ubiquitin E3 ligase) and centrosomal protein CEP55 [1].

Solubility Information

Solubility	DMSO: 80 mg/mL (160.48 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (6.62 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.006 mL	10.0299 mL	20.0598 mL
5 mM	0.4012 mL	2.006 mL	4.012 mL
10 mM	0.2006 mL	1.003 mL	2.006 mL
50 mM	0.0401 mL	0.2006 mL	0.4012 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

Clancy A, et, al. The deubiquitylase USP9X controls ribosomal stalling. J Cell Biol. 2021 Mar 1;220(3):e202004211.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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