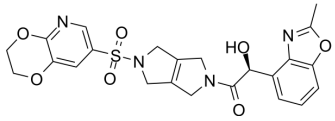
FT709

Cat. No.:	HY-145967
CAS No.:	2413991-74-7
Molecular Formula:	$C_{23}H_{22}N_4O_7S$
Molecular Weight:	498.51
Target:	Deubiquitinase
Pathway:	Cell Cycle/DNA Damage
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (200.60 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.0060 mL	10.0299 mL	20.0598 mL
	5 mM	0.4012 mL	2.0060 mL	4.0120 mL
	10 mM	0.2006 mL	1.0030 mL	2.0060 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: 2.5 mg/mL (5.01 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.5 mg/mL (5.01 mM); Clear solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: 2.5 mg/mL (5.01 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

FT709 is a potent and selective USP9X inhibitor, an IC_{50} of 82 nM. USP9X has been linked with centrosome function, chromosome alignment during mitosis, EGF receptor degradation, chemo-sensitization, and circadian rhythms[1].

In Vitro

FT709 (10 μM, 24 h) decreases levels of ZNF598 (ubiquitin E3 ligase) and the centrosomal protein CEP55 in HCT116 cells[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

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