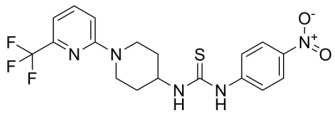
USP8-IN-3

Cat. No.:	HY-149902
CAS No.:	2477651-10-6
Molecular Formula:	$C_{18}H_{18}F_3N_5O_2S$
Molecular Weight:	425.43
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 (235.06 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.3506 mL	11.7528 mL	23.5056 mL
	5 mM	0.4701 mL	2.3506 mL	4.7011 mL
	10 mM	0.2351 mL	1.1753 mL	2.3506 mL

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

BIOLOGICAL ACTIVITY

Description

USP8-IN-3 (Compd U51) is a deubiquitinase USP8 inhibitor with an IC_{50} value of 4.0 μM. USP8-IN-3 also inhibits the proliferation of GH3 and H1957 cells with GI_{50}s of 37.03 μM and 6.01 μM, respectively[1].

IC_{50} & Target

USP8
4.0 μM (IC_{50})

In Vitro

USP8-IN-3 (6.25-100 μM; 15 min) inhibits the cleavage activity of USP8 on diubiquitin[1].

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

Western Blot Analysis[1]

Cell Line:	/
Concentration:	6.25 μM, 12.5 μM, 25 μM, 50 μM, and 100 μM
Incubation Time:	15 min; added Di-Ub substrate for another 1 h

Result:	Decreased the cleaved diubiquitin level.

REFERENCES

[1]. Li zhiyun, et al. Preparing method and application of USP8 inhibitor: China, CN111138358 A. 2020-05-12.

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