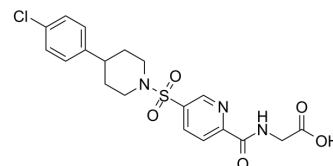


USP5-IN-1

Cat. No.:	HY-139979		
CAS No.:	2851040-81-6		
Molecular Formula:	C ₁₉ H ₂₀ ClN ₃ O ₅ S		
Molecular Weight:	437.9		
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 : 125 mg/mL (285.45 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.2836 mL	11.4181 mL	22.8363 mL
	5 mM	0.4567 mL	2.2836 mL	4.5673 mL
	10 mM	0.2284 mL	1.1418 mL	2.2836 mL

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

BIOLOGICAL ACTIVITY

Description

USP5-IN-1 (compound 64), a potent deubiquitinase USP5 inhibitor, binds to the USP5 ZnF-UBD with a K_D of 2.8 μM. USP5-IN-1 is selective over nine proteins containing structurally similar ZnF-UBD domains. USP5-IN-1 inhibits the USP5 catalytic cleavage of a di-ubiquitin substrate^[1].

REFERENCES

[1]. Mann MK, et al. Structure-Activity Relationship of USP5 Inhibitors [published correction appears in J Med Chem. 2022 Jan 13;65(1):889]. J Med Chem. 2021;64(20):15017-15036.

Caution: Product has not been fully validated for medical applications. For research use only.

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