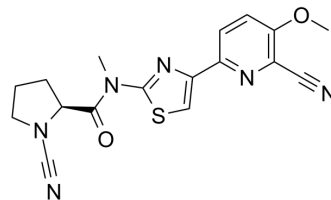


USP30 inhibitor 11

Cat. No.:	HY-111623		
CAS No.:	2067332-64-1		
Molecular Formula:	C ₁₇ H ₁₆ N ₆ O ₂ S		
Molecular Weight:	368.41		
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 : 33.33 mg/mL (90.47 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.7144 mL	13.5718 mL	27.1437 mL
5 mM	0.5429 mL	2.7144 mL	5.4287 mL
10 mM	0.2714 mL	1.3572 mL	2.7144 mL

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

BIOLOGICAL ACTIVITY

Description

USP30 inhibitor 11 is a selective and potent ubiquitin specific peptidase 30 (USP30) inhibitor with an IC₅₀ of 0.01 μM, the example 83 extracted from patent WO2017009650A1. USP30 inhibitor 11 is used for the study of cancer and conditions involving mitochondrial dysfunction^[1].

IC₅₀ & Target

IC₅₀: 0.01 μM (USP30)^[1]

In Vitro

USP30 is a 517 amino acid protein which is found in the mitochondrial outer membrane. It is the sole deubiquitylating enzyme bearing a mitochondrial addressing signal and has been shown to deubiquitylate a number of mitochondrial proteins^[1].
 USP30 inhibitor 11 (0.01-30 μM; λ_{Ex}=540 nm; λ_{Em}=590 nm) inhibits USP30 biochemical activity with an IC₅₀ of 0.01 μM in a USP30 biochemical IC₅₀ assay^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

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