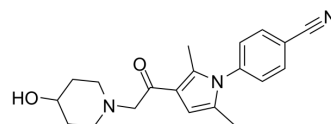


## IU1-248

<b>Cat. No.:</b>	HY-122885		
<b>CAS No.:</b>	2307472-03-1		
<b>Molecular Formula:</b>	C <sub>20</sub> H <sub>23</sub> N <sub>3</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	337.42		
<b>Target:</b>	Deubiquitinase		
<b>Pathway:</b>	Cell Cycle/DNA Damage		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 83.33 mg/mL (246.96 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.9637 mL	14.8183 mL	29.6367 mL
	5 mM	0.5927 mL	2.9637 mL	5.9273 mL
	10 mM	0.2964 mL	1.4818 mL	2.9637 mL

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

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.08 mg/mL (6.16 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.08 mg/mL (6.16 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

IU1-248, a derivative of IU1, is a potent and selective USP14 inhibitor with an IC<sub>50</sub> of 0.83 μM.

#### In Vitro

IU1-248 exhibits an IC<sub>50</sub> value of 0.83 μM toward USP14, which is comparable to that of IU1-47 (IC<sub>50</sub>=0.68 μM) and 10-fold more potent than that of IU1 (IC<sub>50</sub>=12.25 μM)<sup>[1]</sup>.  
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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