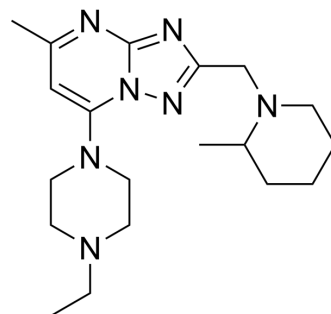


## UBE2T/FANCL-IN-1

<b>Cat. No.:</b>	HY-126539		
<b>CAS No.:</b>	1359415-02-3		
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>31</sub> N <sub>7</sub>		
<b>Molecular Weight:</b>	357.5		
<b>Target:</b>	E1/E2/E3 Enzyme		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 25 mg/mL (69.93 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
<b>Preparing Stock Solutions</b>	<b>1 mM</b>	2.7972 mL	13.9860 mL	27.9720 mL
	<b>5 mM</b>	0.5594 mL	2.7972 mL	5.5944 mL
	<b>10 mM</b>	0.2797 mL	1.3986 mL	2.7972 mL
Please refer to the solubility information to select the appropriate solvent.				
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: 2.5 mg/mL (6.99 mM); Clear solution; Need ultrasonic</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (6.99 mM); Clear solution; Need ultrasonic</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: 2.5 mg/mL (6.99 mM); Clear solution; Need ultrasonic</li> </ol>			

### BIOLOGICAL ACTIVITY

<b>Description</b>	UBE2T/FANCL-IN-1 is a potent inhibitor of UBE2T/FANCL-mediated FANCD2 monoubiquitylation that sensitizes cells to the DNA cross-linking agent, Carboplatin <sup>[1]</sup> .
<b>In Vitro</b>	UBE2T/FANCL-IN-1 (CU2) completely inhibits the ubiquitylation of GST-FANCLRING at 100 μM. UBE2T/FANCL-IN-1 (500 μM) reduced the level of mUb-FANCD2 in response to HU treatment. UBE2T/FANCL-IN-1 (500 μM) also reduced the level of mUb-FANCD2 generated in response to Cisplatin (10 μM) treatment for 6, 12, and 24 hours. The combination of 250 μM UBE2T/FANCL-IN-1 with 15 μM carboplatin led to an even more pronounced decrease in cell proliferation/growth, with the

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cells being <50% confluent after 8 days<sup>[1]</sup>.

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

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## REFERENCES

[1]. Cornwell MJ, et al. Small-Molecule Inhibition of UBE2T/FANCL-Mediated Ubiquitylation in the Fanconi Anemia Pathway. ACS Chem Biol. 2019;14(10):2148-2154.

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

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