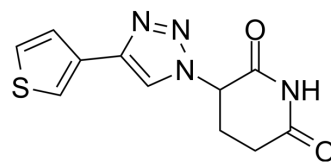


## TMX-4100

<b>Cat. No.:</b>	HY-145321		
<b>CAS No.:</b>	2367619-63-2		
<b>Molecular Formula:</b>	C <sub>11</sub> H <sub>10</sub> N <sub>4</sub> O <sub>2</sub> S		
<b>Molecular Weight:</b>	262.29		
<b>Target:</b>	Phosphodiesterase (PDE); Molecular Glues		
<b>Pathway:</b>	Metabolic Enzyme/Protease; PROTAC		
<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 : 100 mg/mL (381.26 mM; ultrasonic and warming and heat to 60°C)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	3.8126 mL	19.0629 mL	38.1257 mL
		5 mM	0.7625 mL	3.8126 mL	7.6251 mL
10 mM		0.3813 mL	1.9063 mL	3.8126 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 0.71 mg/mL (2.71 mM); Clear solution  2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 0.71 mg/mL (2.71 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	TMX-4100 is a selective phosphodiesterase 6D (PDE6D) degrader. TMX-4100 shows a high degradation preference for PDE6D with the DC <sub>50</sub> values less than 200 nM in MOLT4, Jurkat, and MM.1S cells. TMX-4100 can be used for the research of multiple myeloma <sup>[1]</sup> .	
<b>IC<sub>50</sub> &amp; Target</b>	PDE6	PDE6D
<b>In Vitro</b>	TMX-4100 (compound 3; 1 μM; 4 h) shows a high degradation preference for PDE6D in MOLT4 cells <sup>[1]</sup> . TMX-4100 has better proteome-wide degradation selectivity in MOLT4 cells, compare to PDE6D degrader FPFT-2216 <sup>[1]</sup> . TMX-4100 does not impede the growth of KRAS-dependent cell lines (MIA PaCa-2, NCI-H358, AGS, PA-TU-8988T cells) <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

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#### Western Blot Analysis<sup>[1]</sup>

Cell Line:	MOLT4 cells
Concentration:	1 $\mu$ M
Incubation Time:	4 hours
Result:	Showed a high degradation preference for PDE6D.

#### Western Blot Analysis<sup>[1]</sup>

Cell Line:	MOLT4, Jurkat, and MM.1S cells
Concentration:	0 nM, 40 nM, 200 nM, 1 $\mu$ M;
Incubation Time:	4 hours
Result:	Showed a high degradation preference for PDE6D with the DC <sub>50</sub> value less than 200 nM.

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## REFERENCES

[1]. Teng M, et al. Development of PDE6D and CK1 $\alpha$  Degraders through Chemical Derivatization of FPFT-2216. J Med Chem. 2022 Jan 13;65(1):747-756.

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

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