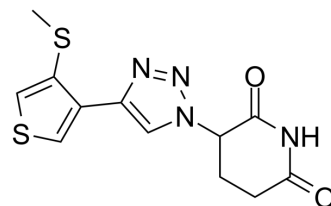


## TMX-4113

<b>Cat. No.:</b>	HY-145320												
<b>CAS No.:</b>	2766385-92-4												
<b>Molecular Formula:</b>	C <sub>12</sub> H <sub>12</sub> N <sub>4</sub> O <sub>2</sub> S <sub>2</sub>												
<b>Molecular Weight:</b>	308.38												
<b>Target:</b>	Phosphodiesterase (PDE); Casein Kinase; Molecular Glues												
<b>Pathway:</b>	Metabolic Enzyme/Protease; Cell Cycle/DNA Damage; Stem Cell/Wnt; PROTAC												
<b>Storage:</b>	<table border="0"> <tr> <td>Powder</td> <td>-20°C</td> <td>3 years</td> </tr> <tr> <td></td> <td>4°C</td> <td>2 years</td> </tr> <tr> <td>In solvent</td> <td>-80°C</td> <td>6 months</td> </tr> <tr> <td></td> <td>-20°C</td> <td>1 month</td> </tr> </table>	Powder	-20°C	3 years		4°C	2 years	In solvent	-80°C	6 months		-20°C	1 month
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	4°C	2 years											
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	-20°C	1 month											



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (324.28 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	3.2428 mL	16.2138 mL	32.4275 mL
		5 mM	0.6486 mL	3.2428 mL	6.4855 mL
10 mM		0.3243 mL	1.6214 mL	3.2428 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 (8.11 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (8.11 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (8.11 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	TMX-4113 is a degrader of phosphodiesterase 6D (PDE6D) and casein kinase 1α (CK1α). TMX-4113 can be used for the research of cancer <sup>[1]</sup> .	
<b>IC<sub>50</sub> &amp; Target</b>	PDE6D	CK1α
<b>In Vitro</b>	TMX-4113 (compound 21; 1 μM; 4 h) shows a high degradation preference for PDE6D and CK1α in MOLT4 cells <sup>[1]</sup> . TMX-4113 (0 nM, 40 nM, 200 nM, 1 μM; 4h) induces degradation of PDE6D in MOLT4 cells <sup>[1]</sup> .	

TMX-4113 (0 nM, 40 nM, 200 nM, 1 $\mu$ M; 4h) degrades over 50% of CK1 $\alpha$  at a dose of 40 nM in MM.1S cells<sup>[1]</sup>.

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

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

Cell Line:	MOLT4 cells
Concentration:	1 $\mu$ M
Incubation Time:	4 h
Result:	Showed a high degradation preference for PDE6D and CK1 $\alpha$ .

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

Cell Line:	MOLT4 cells
Concentration:	0 nM, 40 nM, 200 nM, 1 $\mu$ M
Incubation Time:	4 h
Result:	Induced degradation of PDE6D.

## 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.

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

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