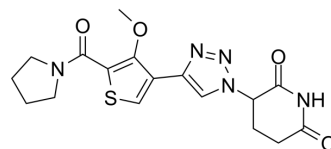


TMX-4116

Cat. No.:	HY-145322		
CAS No.:	2766385-56-0		
Molecular Formula:	C ₁₇ H ₁₉ N ₅ O ₄ S		
Molecular Weight:	389.43		
Target:	Casein Kinase; Molecular Glues		
Pathway:	Cell Cycle/DNA Damage; Stem Cell/Wnt; PROTAC		
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 : 100 mg/mL (256.79 mM); ultrasonic and warming and heat to 60°C

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.5679 mL	12.8393 mL	25.6786 mL
	5 mM	0.5136 mL	2.5679 mL	5.1357 mL
	10 mM	0.2568 mL	1.2839 mL	2.5679 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: ≥ 2.5 mg/mL (6.42 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (6.42 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (6.42 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

TMX-4116 is a casein kinase 1α (CK1α) degrader. TMX-4116 shows the degradation preference for CK1α with DC₅₀s less than 200 nM in MOLT4, Jurkat, and MM.1S cells. TMX-4116 can be used for the research of multiple myeloma^[1].

IC₅₀ & Target

CK1α

In Vitro

TMX-4116 (compound 16; 1 μM; 4 h) shows a high degradation preference for CK1α in MOLT4 cells^[1].
TMX-4116 (250 nM, 4 h) induces primary target degradation of CK1α, while no downregulation of PDE6D, IKZF1, and IKZF3 in

MOLT4 cells^[1].

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

Western Blot Analysis^[1]

Cell Line:	MOLT4 cells
Concentration:	1 μ M
Incubation Time:	4 hours
Result:	Showed a high degradation preference for CK1 α .

Western Blot Analysis^[1]

Cell Line:	MOLT4, Jurkat, and MM.1S cells
Concentration:	0 nM, 40 nM, 200 nM, 1 μ M
Incubation Time:	4 hours
Result:	Showed a high degradation preference for CK1 α with the DC ₅₀ value less than 200 nM in MOLT4, Jurkat, and MM.1S cells.

REFERENCES

[1]. Teng M, et al. Development of PDE6D and CK1 α 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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