

TMX-4116

Chemical Properties

CAS No. : 2766385-56-0

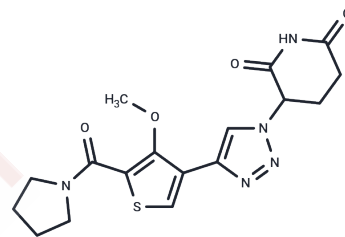
Formula: C₁₇H₁₉N₅O₄S

Molecular Weight: 389.43

Store at low temperature

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	TMX-4116 is a casein kinase 1 α (CK1 α) degrader that preferentially targets CK1 α for degradation in cell lines including MOLT4, Jurkat, and MM.1S. TMX-4116 exhibits potent activity with degradation concentration 50 values (DC50s) below 200 nM. TMX-4116 is employed in the study of multiple myeloma and protein degradation strategies.
Targets(IC50)	Casein Kinase,Molecular Glues,PROTACs
In vitro	Methods: MOLT4 cells were treated with TMX-4116 (1 μ M, 4 hours), and the expression of related proteins was analyzed by Western Blot. Results: TMX-4116 exhibited a significant preference for degrading CK1 α . [1]

Solubility Information

Solubility	DMSO: 80 mg/mL (205.43 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (8.47 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0514 mL	0.2568 mL	0.5136 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Teng M, et al. Development of PDE6D and CK1 α Degradable through Chemical Derivatization of FPFT-2216. J Med Chem. 2022 Jan 13;65(1):747-756.

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