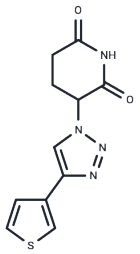
Data Sheet (Cat.No.T39913)

TMX-4100

Chemical Properties



CAS No. : 2367619-63-2

Formula: C11H10N4O2S

Molecular Weight: 262.29

Storage: Store at low temperature
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-4100, a selective phosphodiesterase 6D (PDE6D) degrader, demonstrates high degradation preference (DC50 <200 nM) in MOLT4, Jurkat, and MM.1S cells. This compound can be used for multiple myeloma research.
Targets(IC50)	Molecular Glues,PDE,PROTACs
In vitro	**Methods**: MOLT4, Jurkat, and MM.1S cells were treated with TMX-4100 (40nM, 200nM, 1μM), and the expression of target proteins was detected by Western blotting. **Results**: TMX-4100 maintained its high degradation preference for PDE6D in MOLT4, Jurkat, and MM.1S cells, with DC50 values less than 200 nM after 4 hours of treatment at doses up to 1 μM. [1]

Solubility Information

Solubility	DMSO: 80 mg/mL (305.01 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: 1 mg/mL (3.81 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0763 mL	0.3813 mL	0.7625 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 CK1α Degraders through Chemical Derivatization of FPFT-2216. J Med Chem. 2022 Jan 13;65(1):747-756.

Cai S, et al. Metformin inhibits the progression of castration-resistant prostate cancer by regulating PDE6D induced purine metabolic alternation and cGMP / PKG pathway activation. Cancer Lett. 2025 Jul 10;622:217694.