

XZ739

Chemical Properties

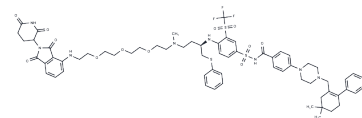
CAS No. : 2365172-19-4

Formula: C₆₅H₇₆ClF₃N₈O₁₂S₃

Molecular Weight: 1349.99

Appearance: no data available

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



Biological Description

Description	XZ739 is a Cereblon-dependent PROTAC BCL-XL degrader, targeting a member of the Bcl-2 family, with a DC50 value of 2.5 nM in MOLT-4 cells after 16 hours of treatment. Additionally, XZ739 elicits cell death via caspase-mediated apoptosis.
Targets(IC50)	PROTACs
In vitro	XZ739 (0.001-10 µM; 48 hours) potently reduces the viability of T-ALL MOLT-4, B-ALL RS4; 11, SCLC NCI-H146 cells, and platelets after 48 h treatment with IC 50 s of 10.1, 41.8, 25.3, and 1217 nM, respectively. XZ739 has >100-fold selectivity for MOLT-4 cells over human platelets[1]. XZ739 (1.2-300 nM; 16 hours) induces BCL-XL degradation in MOLT-4 cells[1]. The BCL-XL degradation induced by XZ739 in MOLT-4 is rapid, starting within 2 h; and 8 h after XZ739 treatment, more than 96% of the BCL-XL is degraded with 100 nM of XZ739[1]. Cell Viability Assay[1]Cell Line: Human platelets and MOLT-4 cells Concentration: 0.001, 0.01, 0.1, 1, and 10 µM Incubation Time: 48 hours Result: IC 50 values were 10.1 nM and 1217 nM for MOLT-4 cells and platelets, respectively. Western Blot Analysis[1]Cell Line: MOLT-4 cells Concentration: 1.2, 3.7, 11, 33, 100, 300 nM Incubation Time: 16 hours Result: Dose-dependently induced BCL-XL degradation.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.7407 mL	3.7037 mL	7.4075 mL
5 mM	0.1481 mL	0.7407 mL	1.4815 mL
10 mM	0.0741 mL	0.3704 mL	0.7407 mL
50 mM	0.0148 mL	0.0741 mL	0.1481 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.

Reference

Xuan Zhang, et al. Discovery of PROTAC BCL-X L Degraders as Potent Anticancer Agents With Low On-Target Platelet Toxicity. Eur J Med Chem. 2020 Apr 15;192:112186.

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