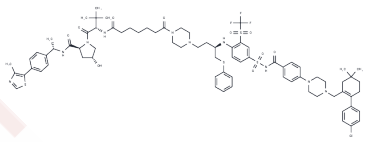
Data Sheet (Cat.No.T13665)

TargetMol

DT2216

Chemical Properties



CAS No. : 2365172-42-3

Formula: C77H96ClF3N10O10S4

Molecular Weight: 1542.36

Storage: Keep away from direct sunlight
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	DT2216 inhibits various Bcl-XL-dependent leukemias and cancer cells, but is significantly less toxic to platelets.DT2216 is a selective B-cell lymphoma, extremely large (BCL-XL), proteolytic targeting chimera (PROTAC).DT2216 targets bcl-XL to the Von Hippel-Lindau (VHL) E3 ligase for degradation.
Targets(IC50)	Apoptosis,Bcl-2 Family,PROTACs
In vitro	DT2216 (0.1, 0.3 μM; 24 hours) kills MOLT-4 cells by caspase-3-mediated induction of apoptosis in a BCL-2 homologous antagonist killer (BAK)- and BCL-2-associated X protein (BAX)-dependent manner.DT2216 (62.5, 125 nM; 72?hours) kills MOLT-4 cells. DT2216 (0.001-10 μM; 72?hour) shows highly toxic to MOLT-4 cells with an EC50 of 0.052 μM.
In vivo	DT2216 (i.p.; 7.5, 15 mg/kg; weekly for 60 days) of 15 mg/kg is more effective at suppressing the growth of MOLT-4 T-ALL xenografts in mice than 7.5 mg/kg.

Solubility Information

Solubility	DMSO: 25 mg/mL (16.21 mM),Sonication is recommended. H2O: < 0.1 mg/mL (insoluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (1.3 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	0.6484 mL	3.2418 mL	6.4836 mL
5 mM	0.1297 mL	0.6484 mL	1.2967 mL
10 mM	0.0648 mL	0.3242 mL	0.6484 mL
50 mM	0.013 mL	0.0648 mL	0.1297 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

Khan S, et al. A selective BCL-XL PROTAC degrader achieves safe and potent antitumor activity. Nat Med. 2019 Dec; 25(12):1938-1947.