

CUDC-427

Chemical Properties

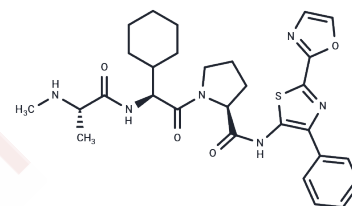
CAS No. : 1446182-94-0

Formula: C₂₉H₃₆N₆O₄S

Molecular Weight: 564.7

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	CUDC-427 (GDC-0917) is an orally bioactive and pan antagonist of inhibitor of apoptosis proteins(IAPs). CUDC-427 can be used in research on cancers.
Targets(IC50)	IAP
In vitro	In PBMCs, GDC-0917 (0.1 -10000 nM) induces the reduction of cIAP1 levels in a concentration-dependent manner. GDC-0917(0.1 μM) shows more than 80% inhibition [1].
In vivo	In the MDA-MB-231-X1.1 Breast Cancer Xenograft, GDC-0917 (0.08-16.3 mg/kg) dose-dependently exhibits antitumor activity with a <11% decrease of body weight. The clearance values are 12.0, 27.0, 15.3 and 67.6 mL/min/kg for mouse, rat, dog and monkey[1].

Solubility Information

Solubility	DMSO: 45 mg/mL (79.69 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: 2 mg/mL (3.54 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	1.7709 mL	8.8543 mL	17.7085 mL
5 mM	0.3542 mL	1.7709 mL	3.5417 mL
10 mM	0.1771 mL	0.8854 mL	1.7709 mL
50 mM	0.0354 mL	0.1771 mL	0.3542 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

Wong H, et al. Learning and confirming with preclinical studies: modeling and simulation in the discovery of GDC-0917, an inhibitor of apoptosis proteins antagonist. Drug Metab Dispos. 2013 Dec;41(12):2104-13.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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