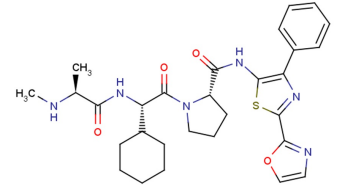


Data Sheet (Cat.No.T15018)

CUDC-427

Chemical Properties

CAS No.: 1446182-94-0
 Formula: C₂₉H₃₆N₆O₄S
 Molecular Weight: 564.7
 Appearance: N/A
 Storage: 0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	CUDC-427 is an antagonist of second-generation pan-selective IAP used for the treatment of various cancers.
Targets(IC ₅₀)	Others: None
In vitro	GDC-0917 (0.1 nM-10 μM) induces the reduction of cIAP1 levels in PBMCs in a concentration-dependent manner. It showing greater than 80% inhibition at concentrations greater than 0.1 μM (56.5 ng/mL).
In vivo	GDC-0917 is well tolerated, with all dose groups experiencing a <11% decrease in mean body weight. GDC-0917 (0.08-16.3 mg/kg) shows antitumor activity in a dose-dependent manner in the MDA-MB-231-X1.1 Breast Cancer Xenograft. GDC-0917 has low to moderate clearance in the mouse (12.0 mL/min/kg), rat (27.0 mL/min/kg), and dog (15.3 mL/min/kg), and high clearance in the monkey (67.6 mL/min/kg).

Solubility Information

Solubility	DMSO: 100 mg/mL (177.09 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.771 mL	8.854 mL	17.709 mL
5 mM	0.354 mL	1.771 mL	3.542 mL
10 mM	0.177 mL	0.885 mL	1.771 mL
50 mM	0.035 mL	0.177 mL	0.354 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. 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.

Inhibitors · Natural Compounds · Compound Libraries

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