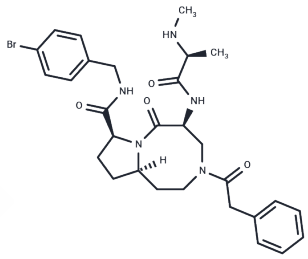
Data Sheet (Cat.No.T36317)

TargetMol

SM-1295

Chemical Properties



CAS No. : 1562375-46-5

Formula: C29H36BrN5O4

Molecular Weight: 598.53

Appearance:

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

Biological Description

Description	SM-1295 serves as an antagonist to the inhibitor of apoptosis protein (IAP), demonstrating dissociation constant (Kd) values of 3077 nM for XIAP-BIR3, 3.2 nM for c-IAP1-BIR3, and 9.5 nM for c-IAP2-BIR3, respectively[1][2].
Targets(IC50)	Others
In vitro	SM-1295 (compound 5) binds to both cIAP1 and cIAP2 proteins, displaying a 900-fold higher affinity for cIAP1 over XIAP[1]. It exhibits an IC50 of 46 nM in MDA-MB-231[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6708 mL	8.3538 mL	16.7076 mL
5 mM	0.3342 mL	1.6708 mL	3.3415 mL
10 mM	0.1671 mL	0.8354 mL	1.6708 mL
50 mM	0.0334 mL	0.1671 mL	0.3342 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

Haiying Sun, et al. Potent and Selective Small-Molecule Inhibitors of cIAP1/2 Proteins Reveal That the Binding of Smac Mimetics to XIAP BIR3 Is Not Required for Their Effective Induction of Cell Death in Tumor Cells. ACS Chem Biol. 2014 Apr 18;9(4):994-1002.

Hui Cong, et al. Inhibitor of Apoptosis Protein (IAP) Antagonists in Anticancer Agent Discovery: Current Status and Perspectives. J Med Chem. 2019 Jun 27;62(12):5750-5772.

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