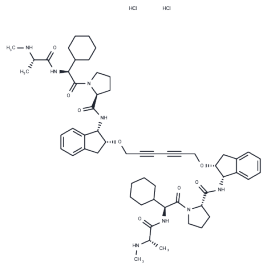
Data Sheet (Cat.No.T36201)

TargetMol

AZD5582 dihydrochloride

Chemical Properties



CAS No. : 1883545-51-4

Formula: C58H80Cl2N8O8

Molecular Weight: 1088.23

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	Dimeric Smac mimetic; potent inhibitor of X-linked (XIAP) and cellular (cIAP) inhibitor of apoptosis protein (IC50 values are 15, 15 and 21 nM for XIAP, cIAP1 and cIAP2 respectively). Binds to the BIR3 domain of XIAP to prevent interaction with caspase-9. Causes degradation of cIAP1 and cIAP2 and induces apoptosis in MDA-MB-231 breast cancer cells. Causes tumor regression in MDA-MB-231 xenograft-bearing mice.
Targets(IC50)	Apoptosis,Others,IAP

Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9189 mL	4.5946 mL	9.1892 mL
5 mM	0.1838 mL	0.9189 mL	1.8378 mL
10 mM	0.0919 mL	0.4595 mL	0.9189 mL
50 mM	0.0184 mL	0.0919 mL	0.1838 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

Hennessy et al (2013) Discovery of a novel class of dimeric Smac mimetics as potent IAP antagonists resulting in a clinical candidate for the treatment of cancer (AZD5582). J.Med.Chem. 56 9897 PMID:24320998

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