Product Name	:	AZD5582
Synonyms	:	AZD-5582
Cat No.	:	M11064
CAS Number	:	1258392-53-8
Molecular Formula	:	C58H78N8O8
Formula Weight	:	1015.29
Chemical Name	:	L-Prolinamide, 3,3'-[2,4-hexadiyne-1,6-diylbis[oxy[(1S,2R)-2,3-dihydro-1H-indene-2,1-diyl]]]bis[N-methyl-L-alanyl-(2S)-2-cyclohexylglycyl-
Description	:	AZD5582 is a dimeric Smac mimetic, potent IAP antagonist that binds potently to the BIR3 domains of cIAP1, cIAP2 and XIAP with IC50 of 15, 21and 15 nM, respectively; causes cIAP1 degradation and induces apoptosis in the MDA-MB-231 breast cancer cell line at subnanomolar concentrations in vitro; induces cIAP1 degradation and caspase-3 cleavage within tumor cells and causes substantial tumor regressions in MDA-MB-231 xenograft-bearing mice.
Pathway	:	Apoptosis
Target	:	IAP
Receptor	:	IAP
Solubility	:	DMSO: ≥ 66.25 mg/mL
SMILES	:	CN[C@@H](C)C(N[C@@H](C1CCCCC1)C(N2[C@H](C(N[C@H]3C(C=CC=C4)=C4C[C@H]3OCC#CC#CCO[C@@H]5CC6=C(C=CC=C6)[C@@H]5NC([C@H](CCC7)N7C([C@H](C8CCCCC8)NC([C@H](C)NC)=O)=O)=O)=O)CCC2)=O)=O.
Storage	:	(-20℃)
Stability	:	≥ 2 years
Reference	:	

1. Hennessy EJ, et al. J Med Chem. 2013 Dec 27;56(24):9897-919.| 2. Moon JH, et al. Oncotarget. 2015 Sep 29;6(29):26895-908.| 3. Zhuang J, et al. Pharmacol Res Perspect. 2014 Dec;2(6):e00081.