

IAP

IAP (Inhibitor of apoptosis) proteins, a family of anti-apoptotic proteins, have an important role in evasion of apoptosis, as they can both block apoptosis-signaling pathways and promote survival. Eight members of this family have been described in humans (BIRC1/NAIP, BIRC2/cIAP1, BIRC3/cIAP2, BIRC4/XIAP, BIRC5/Survivin, BIRC6/Apollon, BIRC7/ML-IAP and BIRC8/ILP2).

IAP genes encode proteins that directly bind and inhibit caspases, and thus play a critical role in deciding cell fate. The IAPs are in turn regulated by endogenous proteins (second mitochondrial activator of caspases and Omi) that are released from the mitochondria during apoptosis. IAP protein family members are frequently overexpressed in cancer and contribute to tumor cell survival, chemo-resistance, disease progression, and poor prognosis. Targeting critical apoptosis regulators, like IAPs, is an attractive therapeutic way undertaken for the development of new classes of therapies for cancer.

Although best known for their ability to regulate caspases, IAPs also influence ubiquitin (Ub)-dependent pathways that modulate innate immune signaling via activation of NF-κB. Several members of the IAP family regulate innate and adaptive immunity through modulation of signal transduction pathways, cytokine production, and cell survival. The regulation of immunity by the IAPs is primarily mediated through the ubiquitin ligase function of cIAP1, cIAP2, and XIAP, the targets of which impact NF-κB and MAPK signalling pathways.

IAP Inhibitors & Antagonists



LBW242	Cat. No. : HY-15519	LCL161	Cat. No.: HY-15518
LBW242, a 3-mer and Smac mimetic, is a potent and orally active proapoptotic IAP inhibitor. LBW242 shows effects on mutant FLT3-expressing cells. LBW242 has activity against multiple myeloma, and potentiates TRAIL- and anticancer drug-mediated cell death of ovarian cancer cells.		LCL161 is a IAP inhibitor which inhibits XIAP in HEK293 cell and cIAP1 in MDA-MB-231 cell with IC_{so}s of 35 and 0.4 nM, respectively.	#1,#1,#5 2,00+
Purity: >98% Clinical Data: No Development Reported Size: 1 mg, 5 mg		Purity: 99.74% Clinical Data: Phase 2 Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg	
MV1	Cat. No.: HY-113534	МХ69	Cat. No. : HY-100892
MV1 is an antagonist of IAP (inhibitor of apoptosis protein), leads to protein knockdown of HaloTag-fused proteins when combined with HaloTag ligand.		MX69 is an inhibitor of MDM2/XIAP , used for cancer treatment.	BY OF
Purity:99.54%Clinical Data:No Development ReportedSize:10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg	\bigcirc	Purity: 99.99% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 1 mg, 5 mg, 10 mg, 50 mg, 100	HO CO
Polygalacin D	Cat. No.: HY-N6064	SBP-0636457 (SBI-0636457; SB1-0636457)	Cat. No.: HY-125378
Polygalacin D (PGD) is a bioactive compound isolated from Platycodon grandiflorum (Jacq.) with anticancer and anti-proliferative properties.	JAN BENERE	SBP-0636457 (SB1-0636457) is a SMAC mimetic, and as an IAP antagonist. SBP-0636457 binds to the BIR-domains of the IAP proteins, with a K_1 of 0.27 μ M. SBP-0636457 can be used for the research of solid tumors and hematologic cancers.	
Purity:99.30%Clinical Data:No Development ReportedSize:1 mg, 5 mg	10214	Purity:98.42%Clinical Data:No Development ReportedSize:5 mg, 10 mg, 25 mg, 50 mg	
SM-1295		SM-164	
SM-1295 is an inhibitor of apoptosis protein (IAP) antagonist, with K_{d} values of 3077 nM, 3.2 nM and 9.5 nM for XIAP-BIR3, c-IAP1-BIR3 and c-IAP2-BIR3, respectively.	Cat. No.: HY-124181	SM-164 is a cell-permeable Smac mimetic compound. SM-164 binds to XIAP protein containing both the BIR2 and BIR3 domains with an IC_{so} value of 1.39 nM and functions as an extremely potent antagonist of XIAP.	Cat. No.: HY-15989
Purity:98.71%Clinical Data:No Development ReportedSize:5 mg, 10 mg, 25 mg, 50 mg, 100 mg		Purity:99.65%Clinical Data:No Development ReportedSize:5 mg, 10 mg, 50 mg, 100 mg	
SM-164 Hydrochloride	Cat. No. : HY-15989A	SM-433	Cat. No.: HY-138059
SM-164 Hydrochloride is a cell-permeable Smac mimetic compound. SM-164 binds to XIAP protein containing both the BIR2 and BIR3 domains with an IC_{so} value of 1.39 nM and functions as an extremely potent antagonist of XIAP .	+122-0-250	SM-433, a Smac mimetic, function as inhibitor of inhibitor of apoptosis proteins (IAPs). SM-433 exhibits strong binding affinity XIAP BIR3 protein with an IC_{50} <1 μ M (patent WO2008128171A2).	HAL NH O'S NH
Purity:99.0%Clinical Data:No Development ReportedSize:10 mM × 1 mL, 5 mg, 10 mg, 50 mg		Purity:98.06%Clinical Data:No Development ReportedSize:5 mg, 10 mg, 25 mg, 50 mg, 100 mg	

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SM-433 hydrochloride		UC-112	
	Cat. No.: HY-138059A		Cat. No.: HY-12842
SM-433 hydrochlorid, a Smac mimetic, function as inhibitor of inhibitor of apoptosis proteins (IAPs) . SM-433 hydrochlorid exhibits strong binding affinity XIAP BIR3 protein with an $IC_{so} < 1 \mu M$ (patent WO2008128171A2).		UC-112 is a novel potent IAP(Inhibitor of apoptosis) inhibitor; potently inhibit cell growth in two human melanoma (A375 and M14) and two human prostate (PC-3 and DU145) cancer cell lines(IC50=0.7-3.4 uM).	CNOHN
Purity:98.57%Clinical Data:No Development ReportedSize:5 mg, 10 mg, 25 mg, 50 mg, 100 mg	/ ₀ на	Purity:99.72%Clinical Data:No Development ReportedSize:10 mg	()
Xevinapant (AT-406; Debio 1143; SM-406)	Cat. No. : HY-15454	Xevinapant hydrochloride (AT-406 hydrochloride; Debio 1143 hydrochloride; SM-406 hydrochloride) Cat. No.: HY-13208	
Xevinapant (AT-406) is a potent and orally bioavailable Smac mimetic and an antagonist of IAPs, and it binds to XIAP, cIAP1, and cIAP2 proteins with K ₁ of 66.4, 1.9, and 5.1 nM, respectively.		Xevinapant (AT-406) hydrochloride is a potent and orally bioavailable Smac mimetic and an antagonist of the inhibitor of apoptosis proteins (IAPs). Xevinapant hydrochloride binds to XIAP, cIAP1, and cIAP2 proteins with K ₁ s of 66.4, 1.9, and 5.1 nM, respectively.	
Purity: 99.84% Clinical Data: Phase 3 Size: 10 mM × 1 mL, 10 mg, 50 mg	0	Purity:98.80%Clinical Data:No Development ReportedSize:10 mg, 50 mg	H-CI
XIAP degrader-1	Cat. No.: HY-115865	XIAP/cIAP1 antagonist-1	Cat. No.: HY-102051
XIAP degrader-1, a primary amine tethered small molecule, promotes the degradation of X-linked inhibitor of apoptosis protein (XIAP).	ни~~~~у ^н ј с , 1 с	XIAP/cIAP1 antagonist-1 is a potent and orally active XIAP/cIAP1 antagonist with EC_{59} s of 5.1 nM and 0.32 nM for XIAP and cIAP1, respectively. XIAP/cIAP1 antagonist-1 inhibits the tumor growth in dose-dependent manner in vivo.	
Purity: 99.31%		Purity: >98%	15

Clinical Data: No Development Reported

. 1 mg, 5 mg

Size:

Purity:99.31%Clinical Data:No Development ReportedSize:5 mg, 10 mg

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