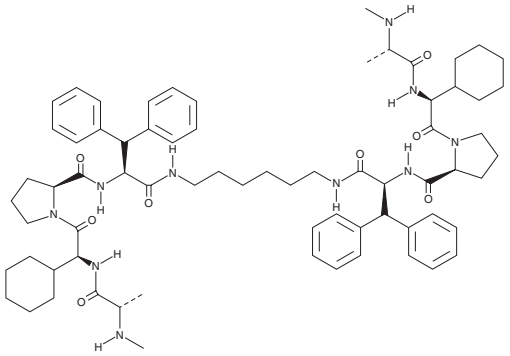
PRODUCT INFORMATION

BV6

Item No. 28830



CAS Registry No.:	1001600-56-1
Formal Name:	4,4'-(1,6-hexanediyl)*bis*[N-methyl-L-alanyl-(2S)-2-cyclohexylglycyl-L-prolyl-β-phenyl-L-phenylalaninamide
MF:	$C_{70}H_{96}N_{10}O_8$
FW:	1,205.6
Purity:	≥98%
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

BV6 is supplied as a crystalline solid. A stock solution may be made by dissolving the BV6 in the solvent of choice, which should be purged with an inert gas. BV6 is soluble in the organic solvent DMSO at a concentration of approximately 60 mg/ml.

Description

BV6 is a bivalent Smac mimetic and an antagonist of the inhibitor of apoptosis (IAP) proteins that binds to IAP1 and XIAP (K_ds = 0.46 and 1.3 nM, respectively).[1] It induces autoubiquitination and proteasomal degradation of IAP1 and XIAP in MDA-MB-231 cells when used at a concentration of 5 µM. BV6 (4 µM) induces NF-κB activation and TNF-dependent apoptosis in A2058 and MDA-MB-231 cells. It enhances radiosensitization and increases apoptosis in HCC193 and H460 non-small cell lung cancer (NSCLC) cell lines.[2] BV6 (1 µM) induces cell death in a panel of 40 primary, patient-derived B cell precursor acute lymphoblastic leukemia (BCP-ALL) samples in a TNF-dependent manner.[3] *In vivo*, BV6 (10 mg/kg) increases survival and the time to relapse in a high-risk BCP-ALL patient-derived xenograft (PDX) mouse model.

References

1. Varfolomeev, E., Blankenship, J.W., Wayson, S.M., *et al.* IAP antagonists induce autoubiquitination of c-IAPs, NF-κB activation, and TNFα-dependent apoptosis. *Cell* **131(4)**, 669-681 (2007).
2. Li, W., Li, B., Giacalone, N.J., *et al.* BV6, an IAP antagonist, activates apoptosis and enhances radiosensitization of non-small cell lung carcinoma in vitro. *J. Thorac. Oncol.* **6(11)**, 1801-1809 (2011).
3. Schirmer, M., Trentin, L., Queudeville, M., *et al.* Intrinsic and chemo-sensitizing activity of SMAC-mimetics on high-risk childhood acute lymphoblastic leukemia. *Cell Death Dis.* **7:e2052** (2016).

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