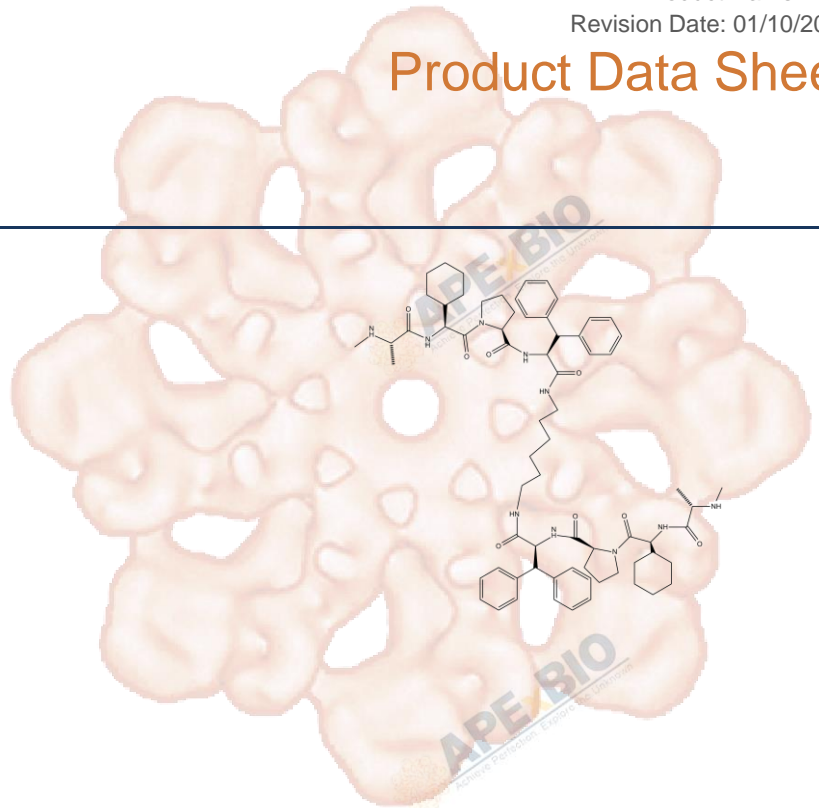


Product Data Sheet

BV6

Cat. No.:	B4653
CAS No.:	1001600-56-1
Formula:	C70H96N10O8
M.Wt:	1205.57
Synonyms:	
Target:	Apoptosis
Pathway:	IAP
Storage:	Store at -20°C



Solvent & Solubility

≥60.28 mg/mL in DMSO; insoluble in H₂O; ≥12.6 mg/mL in EtOH with ultrasonic

In Vitro

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1mg	5mg	10mg
	1 mM		0.8295 mL	4.1474 mL	8.2948 mL
	5 mM		0.1659 mL	0.8295 mL	1.6590 mL
	10 mM		0.0829 mL	0.4147 mL	0.8295 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary

Selective inhibitor of IAP proteins

IC₅₀ & Target

Cell Viability Assay

In Vitro

Cell Line:	HCC193 and H460 non-small cell lung cancer (NSCLC) cell lines.
Preparation method:	Limited solubility. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
Reacting conditions:	37°C

	Applications:	BV6 reduces the expression of cIAP1 and XIAP in HCC193 and H460 cell lines in a time and dose-dependent manner. BV6 also induces apoptosis in both HCC193 and H460 cell lines. In addition, BV6 prominently promotes the radiosensitivity of both HCC193 and H460 lung cancer cell lines.
In Vivo	Animal experiment	
	Animal models:	Mouse endometriosis model
	Dosage form:	Single i.p. injection of BV6 (10 mg/kg) twice weekly.
	Applications:	BV6 treatment for 4 weeks attenuates the intensity of IAPs expression and lowers the total number of lesions, the average weight and the surface area of lesions as compared with control group. Moreover, BV6 treatment decreases the percentage of Ki67-positive cells in the endometrial gland epithelia or stroma.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

1. Liu Z, Mar KB, et al. "A NIK-SIX signalling axis controls inflammation by targeted silencing of non-canonical NF- κ B." Nature. 2019 Apr;568(7751):249-253.PMID:30894749
2. Rossi A, Pakhomova ON, et al. "Mechanisms and immunogenicity of nsPEF-induced cell death in B16F10 melanoma tumors." Sci Rep. 2019 Jan 23;9(1):431.PMID:30674926
3. In EJ, Lee Y, et al. "Identification and Characterization of NTB451 as a Potential Inhibitor of Necroptosis." Molecules.2018 Nov 5;23(11). pii: E2884.PMID:30400632
4. Murai S, Yamaguchi Y, et al. "A FRET biosensor for necroptosis uncovers two different modes of the release of DAMPs." Nat Commun. 2018 Oct 26;9(1):4457.PMID:30367066
5. Yue Y, Nabar NR, et al. "SARS-Coronavirus Open Reading Frame-3a drives multimodal necrotic cell death." Cell Death Dis. 2018 Sep 5;9(9):904.PMID:30185776

See more customer validations on www.apexbt.com.

References

1. Li W, Li B, Giacalone NJ, Torossian A et al. BV6, an IAP antagonist, activates apoptosis and enhances radiosensitization of non-small cell lung carcinoma in vitro. J Thorac Oncol. 2011 Nov;6(11):1801-9.
2. Uegaki T, Taniguchi F, Nakamura K et al. Inhibitor of apoptosis proteins (IAPs) may be effective therapeutic targets for treating endometriosis. Hum Reprod. 2015 Jan;30(1):149-58.

Caution

FOR RESEARCH PURPOSES ONLY.



NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.



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