

Product Data Sheet

A-1210477

Cat. No.:	B6011
CAS No.:	1668553-26-1
Formula:	C46H55N7O7S
M.Wt:	850.04
Synonyms:	
Target:	Apoptosis
Pathway:	Bcl-2 Family
Storage:	Store at -20°C



Solvent & Solubility

insoluble in DMSO; insoluble in H₂O; insoluble in EtOH

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	1.1764 mL	5.8821 mL	11.7642 mL
	5 mM	0.2353 mL	1.1764 mL	2.3528 mL
	10 mM	0.1176 mL	0.5882 mL	1.1764 mL

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

Biological Activity

Shortsummary

MCL-1 inhibitor

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line: H929 cells

Preparation method: This compound is soluble in DMSO. 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: 0 ~ 30 μM; 4 hrs

	Applications:	In H929 cells, A-1210477 bound selectively and strongly to MCL-1, and reduced the amount of BIM co-immunoprecipitated with MCL-1 in a dose-dependent manner with an IC50 value in the low- μ M range.
In Vivo	Animal experiment	
	Applications:	

Product Citations

1. Bianchetti E, Bates SJ, et al. "Usp9X Regulates Cell Death in Malignant Peripheral Nerve Sheath Tumors." Sci Rep. 2018 Nov 26;8(1):17390.PMID:30478285
2. Campbell KJ, Dhayade S, et al. "MCL-1 is a prognostic indicator and drug target in breast cancer." Cell Death Dis. 2018 Jan 16;9(2):19.PMID:29339815

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References

- [1]. Leveson JD, Zhang H, Chen J, et al. Potent and selective small-molecule MCL-1 inhibitors demonstrate on-target cancer cell killing activity as single agents and in combination with ABT-263 (navitoclax). Cell death & disease, 2015, 6(1): e1590.

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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