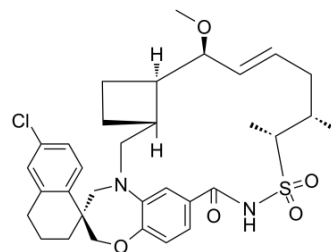


AMG-176

Cat. No.:	HY-101565		
CAS No.:	1883727-34-1		
Molecular Formula:	C ₃₃ H ₄₁ ClN ₂ O ₅ S		
Molecular Weight:	613.21		
Target:	Bcl-2 Family		
Pathway:	Apoptosis		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 62.5 mg/mL (101.92 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	1.6308 mL	8.1538 mL	16.3076 mL
		5 mM	0.3262 mL	1.6308 mL	3.2615 mL
10 mM		0.1631 mL	0.8154 mL	1.6308 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (3.39 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (3.39 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	AMG-176 is a potent, selective and orally active MCL-1 inhibitor, with a K _i of 0.13 nM ^{[1][2]} .
IC₅₀ & Target	Mcl-1 0.13 nM (K _i)
In Vitro	AMG-176 is an inhibitor of induced myeloid leukemia cell differentiation protein MCL-1 (K _i =0.13 nM), with potential pro-apoptotic and antineoplastic activities. Upon administration, AMG 176 binds to and inhibits the activity of MCL-1. This disrupts the formation of MCL-1/Bcl-2-like protein 11 (BCL2L11; BIM) complexes and induces apoptosis in tumor cells ^{[1][2]} . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Int J Cancer. 2020 Oct 15;147(8):2176-2189.

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REFERENCES

- [1]. Caenepeel S, et al. AMG 176, a Selective MCL1 Inhibitor, is Effective in Hematological Cancer Models Alone and in Combination with Established Therapies. Cancer Discov. 2018 Sep 25. pii: CD-18-0387.
- [2]. Garner TP, et al. Progress in targeting the BCL-2 family of proteins. Curr Opin Chem Biol. 2017 Aug;39:133-142.
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Caution: Product has not been fully validated for medical applications. For research use only.

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