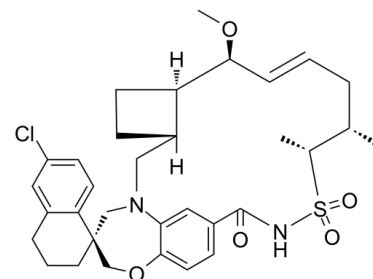


Data Sheet

Product Name:	AMG-176
Cat. No.:	CS-0021721
CAS No.:	1883727-34-1
Molecular Formula:	C33H41ClN2O5S
Molecular Weight:	613.21
Target:	Bcl-2 Family
Pathway:	Apoptosis
Solubility:	DMSO : 62.5 mg/mL (101.92 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

AMG-176 is a potent, selective and orally bioavailable MCL-1 inhibitor, with a K_i of 0.13 nM. IC_{50} & Target: K_i : 0.13 nM (MCL1)^{[1][2]}. **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 (BCL2L1; BIM) complexes and induces apoptosis in tumor cells^{[1][2]}.

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.

CAIndexNames:

Spiro[5,7-etheno-1H,11H-cyclobut[1,4]oxazepino[3,4-f][1,2,7]thiadiazacyclohexadecine-2(3H),1'(2'H)-naphthalen]-8(9H)-one, 6'-chloro-3',4',12,13,16,16a,17,18,18a,19-decahydro-16-methoxy-11,12-dimethyl-, 10,10-dioxide, (1'S,11R,12S,14E,16S,16aR,18aR)-

SMILES:

C1C1=CC=C2C(CCC[C@@]23CN(C[C@@](CC4)([H])[C@]4([H])[C@H]5C=C/C[C@H](C)[C@H]5C)OC)C6=CC(C(=O)=O)=O=CC=C6OC3)=C1

Caution: Product has not been fully validated for medical applications. For research use only.

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