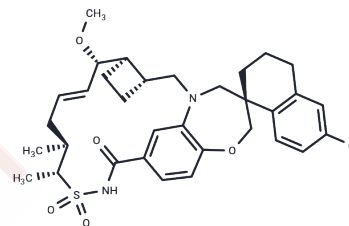


Tapotoclax

Chemical Properties

CAS No. :	1883727-34-1
Formula:	C ₃₃ H ₄₁ ClN ₂ O ₅ S
Molecular Weight:	613.21
Storage:	Keep away from moisture, Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Tapotoclax (AMG-176) is an orally active MCL1 inhibitor for the study of myeloid leukemia.
Targets(IC50)	Bcl-2 Family
In vitro	Tapotoclax is a potent inhibitor ($K_i=0.13$ nM) of the inducible myeloid leukemia cell differentiation protein MCL-1, with potential pro-apoptotic and anti-tumor activity. Upon administration, Tapotoclax binds to MCL-1, thereby inhibiting its function. This process prevents the formation of a complex between MCL-1 and Bcl-2-like protein 11 (BCL2L11; BIM) and further triggers apoptosis in tumor cells. [2]

Solubility Information

Solubility	DMSO: 50 mg/mL (81.54 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0326 mL	0.1631 mL	0.3262 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Caenepeel S, et al. AMG 176, a Selective MCL1 Inhibitor, Is Effective in Hematologic Cancer Models Alone and in Combination with Established Therapies. *Cancer Discov.* 2018 Dec;8(12):1582-1597.

Garner TP, et al. Progress in targeting the BCL-2 family of proteins. *Curr Opin Chem Biol.* 2017 Aug;39:133-142.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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