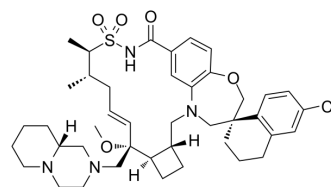


Murizatoclox

Cat. No.:	HY-109184		
CAS No.:	2245848-05-7		
Molecular Formula:	C ₄₂ H ₅₇ ClN ₄ O ₅ S		
Molecular Weight:	765.44		
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 : 10 mg/mL (13.06 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.3064 mL	6.5322 mL	13.0644 mL
5 mM	0.2613 mL	1.3064 mL	2.6129 mL
10 mM	0.1306 mL	0.6532 mL	1.3064 mL

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

BIOLOGICAL ACTIVITY

Description

Murizatoclox (AMG 397) is a potent, selective and orally active inhibitor of myeloid leukemia 1 (MCL-1) inhibitor, with a K_i of 15 pM. Murizatoclox competitive binds to the BH3-binding groove of MCL1 with pro-apoptotic BCL-2 family members. Murizatoclox can be used for the research of cancer^{[1][2]}.

IC₅₀ & Target

MCL1
15 pM (K_i)

In Vitro

AMG 397 potently disrupts the interaction between MCL1 and BIM in OPM2 cells, induces clear increases in Caspase-3/7 activity within one hour^[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Murizatoclox (25-50 mg/kg; p.o. once or twice weekly) exhibits significant tumor regressions in mice bearing OPM2 xenografts^[2].
Murizatoclox (10-60 mg/kg; p.o. twice weekly) achieves 47% MOLM-13 orthotopic tumor growth inhibition (TGI), 99% TGI and 75% regression at the dose of 10, 30 and 60 mg/kg, respectively^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Wang H, et, al. Targeting MCL-1 in cancer: current status and perspectives. J Hematol Oncol. 2021 Apr 21;14(1):67.

[2]. Caenepeel S, et al. Abstract 6218: discovery and preclinical evaluation of AMG 397, a potent, selective and orally bioavailable MCL1 inhibitor. Cancer Res. 2020;80(16 Supplement):6218.

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

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