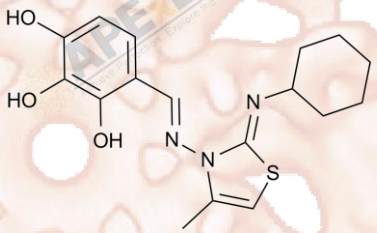
Product Data Sheet

MIM1



Cat. No.:	A4465
CAS No.:	509102-00-5
Formula:	C17H21N3O3S
M.Wt:	347.43
Synonyms:	
Target:	Apoptosis
Pathway:	Bcl-2 Family
Storage:	Store at 4°C

Solvent & Solubility

In Vitro

insoluble in EtOH; insoluble in H2O; ⩾12.15 mg/mL in DMSO

Preparing Stock Solutions

Mass / Solvent / Concentration	1mg	5mg	10mg
1 mM	2.8783 mL	14.3914 mL	28.7828 mL
5 mM	0.5757 mL	2.8783 mL	5.7566 mL
10 mM	0.2878 mL	1.4391 mL	2.8783 mL

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

Biological Activity

Shortsummary	Mcl-1 Inhibitor
IC_{50} & Target	

In Vitro

Cell Viability Assay

Cell Line:	p185+Arf−/−Mcl-1-deleted B-ALL cells
Preparation method：	The solubility of this compound in DMSO is >10 mM. 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:	IC50: 4.2 μM, 24 hours for impairing the cell viability rescued by MCL-1

	Applications:	MIM1 negatively impacted the viability of the MCL-1-dependent cells (p185+Arf−/−Mcl-1-deleted B-ALL cells) with IC50 value of 4.2 μM, including dose-dependent induction of caspase 3/7 activity, but having little to no effect on the BCL-XL-dependent cells. MIM1's cytotoxic effect on the MCL-1-dependent cells likewise corresponded to dose-dependent dissociation of the inhibitory MCL-1/BAK complex, as assessed by co-immunoprecipitation analysis.
In Vivo	**Animal experiment**	
	Applications:	
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

1. Arnett E, Weaver AM, et al. "PPARγ is critical for Mycobacterium tuberculosis induction of Mcl-1 and limitation of human macrophage apoptosis. PLoS Pathog." 2018 Jun 21;14(6):e1007100.PMID:29928066

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References

[1] Cohen N A, Stewart M L, Gavathiotis E, et al. A competitive stapled peptide screen identifies a selective small molecule that overcomes MCL-1-dependent leukemia cell survival. Chemistry & biology, 2012, 19(9): 1175-1186.

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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