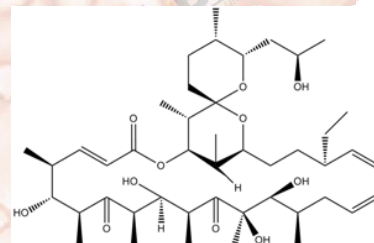


Product Data Sheet

Oligomycin A

Cat. No.:	A5588
CAS No.:	579-13-5
Formula:	C45H74O11
M.Wt:	791.06
Synonyms:	
Target:	Membrane Transporter/Ion Channel
Pathway:	ATPase
Storage:	Store at -20°C



Solvent & Solubility

insoluble in H₂O; ≥ 17.43 mg/mL in EtOH; ≥ 9.89 mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Solvent	Mass Concentration	Mass		
			1mg	5mg	10mg
		1 mM	1.2641 mL	6.3206 mL	12.6413 mL
		5 mM	0.2528 mL	1.2641 mL	2.5283 mL
		10 mM	0.1264 mL	0.6321 mL	1.2641 mL

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

Biological Activity

Shortsummary

Mitochondrial ATP synthase Inhibitor

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line:	Human laryngeal cancer docetaxel-resistant DRHEp2 cells
Preparation method:	The solubility of this compound in DMSO is > 9.9mg/mL. 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:	72 h, 2 µg/ml

	Applications:	Oligomycin A is an Fo-ATPase inhibitor. Oligomycin A increased the sensitivity of DRHEp2 cells to docetaxel in a dose-dependent manner and combining oligomycin A and docetaxel increased the generation of mitochondrial ROS.
In Vivo	Animal experiment	
	Applications:	

Product Citations

1. Tian C, Yuan Z, et al. "Inhibition of glycolysis by a novel EGFR/HER2 inhibitor KU004 suppresses the growth of HER2+ cancer." *Exp Cell Res.* 2017 May 19. pii: S0014-4827(17)30297-5. PMID:28532652

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References

[1]. Mizumachi T, Suzuki S, Naito A, et al. Increased mitochondrial DNA induces acquired docetaxel resistance in head and neck cancer cells[J]. *Oncogene*, 2008, 27(6): 831-838.

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 APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term 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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