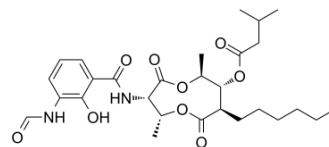


Antimycin A1

Cat. No.:	HY-107406		
CAS No.:	642-15-9		
Molecular Formula:	C ₂₈ H ₄₀ N ₂ O ₉		
Molecular Weight:	548.63		
Target:	Mitochondrial Metabolism		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	Antimycin A1 is a specific electron transfer inhibitor of ubiquinol-cytochrome c oxidoreductase . Antimycin A1 inhibits angiogenesis through decrease in VEGF production caused by inhibition of HIF-1α activation ^{[1][2]} .
In Vitro	Antimycin A, a mixture of Antimycins A1, A2, A3, and A4, is an antibiotic produced by Streptomyces species and displays antifungal, insecticidal, nematocidal, and piscicidal properties ^[3] . Antimycin A inhibits Bcl-2 and Bcl-xL proteins, inducing apoptosis ^[4] .

REFERENCES

- [1]. Hoon Kim, et al. Structure of Antimycin A1, a Specific Electron Transfer Inhibitor of Ubiquinol-Cytochrome c Oxidoreductase. *J. Am. Chem. Soc.* 1999, 121, 20, 4902-4903.
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- [3]. Liu J, et al. Biosynthesis of antimycins with a reconstituted 3-formamidosalicylate pharmacophore in Escherichia coli. *ACS Synth Biol.* 2015;4(5):559-565.
- [4]. Tzung SP, et al. Antimycin A mimics a cell-death-inducing Bcl-2 homology domain 3. *Nat Cell Biol.* 2001;3(2):183-191.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA