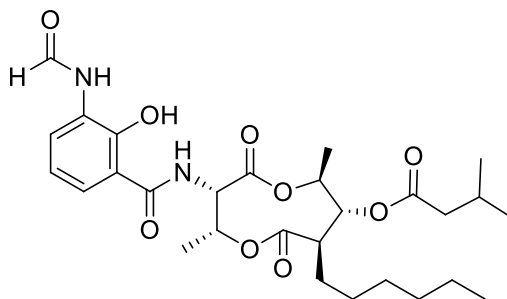


Antimycin A1

Code No.: **BIA-A1442**

Pack sizes: **0.5 mg, 2.5 mg**



Synonyms :

Specifications

CAS #	: 642-15-9
Molecular Formula	: C₂₈H₄₀N₂O₉
Molecular Weight	: 548.6
Source	: <i>Streptomyces</i> sp.
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.

Application Notes

Antimycin A1 is the most hydrophobic of the four analogues of the antimycin A complex. Like all antimycins, antimycin A1 exhibits potent antifungal, anthelmintic, insecticidal, antiviral and antitumor activity across a range of bioassays. Although broadly active as respiration inhibitors, more recent investigation has highlighted the importance of individual members of the complex as bioprobes. Antimycin A1 inhibits angiogenesis via a decrease in VEGF production caused by inhibition of HIF-1a activation.

References

1. Antimycin A1, an antibiotic with insecticidal and mitocidal properties. Kido G.S. & Spyhalski E. Science 1950, 112, 172.
2. Inhibition of angiogenesis and HIF-1a activity by antimycin A1. Maeda M. et al., Biol. Pharm. Bull. 2006, 29, 1344.