

Product Name:	Antimycin A3
Product Number:	A102
CAS Number:	522-70-3
Molecular Formula:	$C_{26}H_{36}N_2O_9$
Molecular Weight:	520.6
Appearance:	White solid
Storage Conditions:	-20°C
Description:	<p>Antimycin A3 is a homologue of the antimycin complex, first isolated in 1958 from <i>Streptomyces blastimyceticus</i> and co-produced with antimycin A4. Antimycin A3 is a more polar analogue of A1 and A2. Antimycin A3 exhibits broad biological activity as an antifungal, anthelmintic, insecticidal, antiviral and antitumor active. Lack of availability of the individual antimycin components has hindered greater understanding of the common and unique molecular targets of the components of the antimycin complex.</p> <p>Antimycin A3 is soluble in ethanol, methanol, DMF and DMSO.</p>
Mechanism of Action:	Antimycin A3 is a potent inhibitor of respiration by inhibiting the oxidation of ubiquinol to ubiquinone.
References:	Studies on the chemical structure of blastmycin. Yonehara H. & Takeuchi S. J. Antibiotics Ser. A 1958, 11, 254.