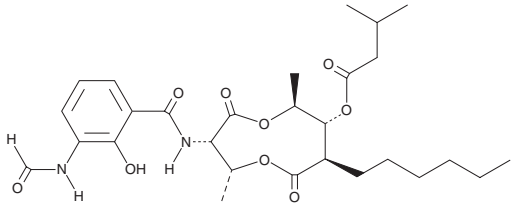
PRODUCT INFORMATION

Antimycin A_1

Item No. 19433

CAS Registry No.:	642-15-9
Formal Name:	2(or 3)-methyl-butanoic acid, (2R,3S,6S,7R,8R)-3-[[3-(formylamino)-2-hydroxybenzoyl]amino]-8-hexyl-2,6-dimethyl-4,9-dioxo-1,5-dioxonan-7-yl ester
MF:	$C_{28}H_{40}N_2O_9$
FW:	548.6
Purity:	≥98%
UV/Vis.:	λ_{max}: 230, 321 nm
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Antimycin A_1 is supplied as a solid. A stock solution may be made by dissolving the antimycin A_1 in the solvent of choice, which should be purged with an inert gas. Antimycin A_1 is soluble in organic solvents such as ethanol, methanol, DMSO, and dimethyl formamide.

Description

Antimycin A_1 is an active component of the antimycin A complex.[1-3] It inhibits electron transport.[1] Antimycin A_1 (3.3-160 µM) induces the synthesis of carotenoids in *M. marinum*.[2] It also inhibits ATP-citrate lyase (K_i = 29.5 µM).[3]

References

1. Liu, W.-C. and Strong, F.M. The chemistry of antimycin A. VI. Separation and properties of antimycin A subcomponents. *J. Am. Chem. Soc.* **81(16)**, 4387-4390 (1959).
2. Batra, P.P., Harbin, T.L., Howes, C.D., *et al.* A study of the relationship of structure and activity of antimycin A in the induction of carotenoid synthesis in *Mycobacterium marinum*. *J. Biol. Chem.* **246(23)**, 7125-7130 (1971).
3. Barrow, C.J., Oleynek, J.J., Marinelli, V., *et al.* Antimycins, inhibitors of ATP-citrate lyase, from a *Streptomyces* sp. *J. Antibiot. (Tokyo)* **50(9)**, 729-733 (1997).

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