LKT Laboratories, Inc.

Antimycin A

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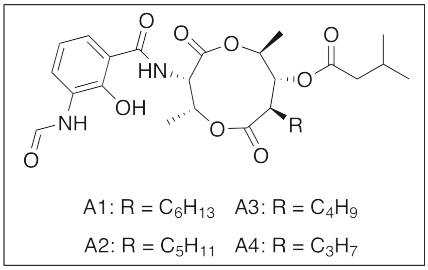
Product Information

Product ID A5378
CAS No. 1397-94-0
Chemical Name 3-Methylbutanoic acid 3-[[3-(formylamino)-2- hydroxy benzoyl]amino] -8-hexyl-2,6-dimethyl-4,9- dioxo-1,5-dioxonan-7-yl ester

Synonym Isovaleric acid 8-ester with 3-formamido-*N*-(7-hexyl- 8-hydroxy-4,9-dimethyl -2,6-dioxo-1,5-dioxonan-3,yl)- salicylamide

Formula $C_{28}H_{40}N_2O_9$
Formula Wt. 548.63
Melting Point 149-150°C
Purity
Solubility Soluble in alcohol, ethanol (50mg/mL),ether, acetone, or chloroform. Slightly soluble in benzene or carbon tetrachloride. Insoluble in water.



Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
A5378	10 mg	$117.70
A5378	50 mg	$330.50

Store Temp -20°C
Ship Temp Ambient
Description Antimycin A was initially produced by *Streptomyces*. Antimycin A binds cytochrome c reductase, inhibiting electron transport chain activity, oxidative phosphorylation, and ATP synthesis. Antimycin A is used in research models to study mitochondrial respiration and superoxide production.

References

Taddeo EP, Laker RC, Breen DS, et al. Opening of the mitochondrial permeability transition pore links mitochondrial dysfunction to insulin resistance in skeletal muscle. Mol Metab. 2013 Nov 26;3(2):124-34. PMID: 24634818.

Ma X, Jin M, Cai Y, et al. Mitochondrial electron transport chain complex III is required for antimycin A to inhibit autophagy. Chem Biol. 2011 Nov 23;18(11):1474-81. PMID: 22118681.

Quinlan CL, Gerencser AA, Treberg JR, et al. The mechanism of superoxide production by the antimycin-inhibited mitochondrial Q-cycle. J Biol Chem. 2011 Sep 9;286(36):31361-72. PMID: 21708945.