



LKT Laboratories, Inc.

Antimycin A

Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lktlabs.com
Web: lktlabs.com

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 C₂₈H₄₀N₂O₉

Formula Wt. 548.63

Melting Point 149-150 °C

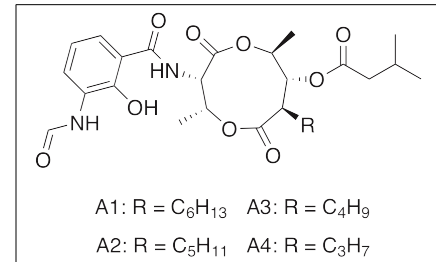
Purity

Solubility Soluble in alcohol, ethanol (50mg/mL), ether, acetone, or chloroform. Slightly soluble in benzene or carbon tetrachloride. Insoluble in

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.



Bulk quantities available upon request

Product ID	Size
A5378	10 mg
A5378	50 mg

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.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.