



LKT Laboratories, Inc.

Daptomycin

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Product Information

Product ID D0363

CAS No. 103060-53-3

Chemical Name N-decanoyl-L-tryptophyl-L-asparaginyl-L-aspartyl-L-threonylglycyl-L-ornithyl-L-aspartyl-D-alanyl-L-aspartylglycyl-D-seryl-threo-3-methyl-L-glutamyl-3-anthraniloyl-L-alanine[egr]1-lactone

Synonym

Formula C₇₂H₁₀₁N₁₇O₂₆

Formula Wt. 1620.67

Melting Point

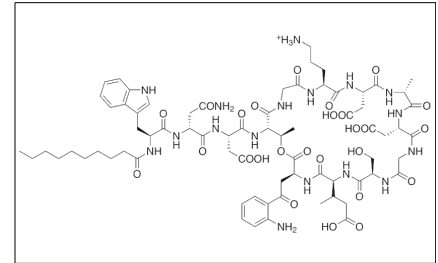
Purity ≥90%

Solubility Soluble in ethanol (50 mM), methano, DMF, DMSO (100 mM). Slightly soluble in water (25 mg/mL, 5 mM).

Store Temp -20 °C

Ship Temp Ambient

Description Daptomycin is an anionic lipopeptide antibiotic that exhibits antibacterial efficacy and is used clinically to treat gram positive bacterial infections such as MRSA. Daptomycin induces reorganization of cell membranes and alters localization of proteins involved in cell division and cell wall synthesis; this compound also induces release of intracellular Ca²⁺ and other ions. This compound is also produced by the soil saprotroph *Streptomyces roseosporus*.



Bulk quantities available upon request

Product ID	Size
D0363	5 mg
D0363	25 mg
D0363	100 mg

References Pogliano J, Pogliano N, Silverman JA. Daptomycin-mediated reorganization of membrane architecture causes mislocalization of essential cell division proteins. *J Bacteriol.* 2012 Sep;194(17):4494-504. PMID: 22661688.

Vilhena C, Bettencourt A. Daptomycin: a review of properties, clinical use, drug delivery and resistance. *Mini Rev Med Chem.* 2012 Mar;12(3):202-9. PMID: 22356191

Beiras-Fernandez A, Vogt F, Sodian R, et al. Daptomycin: a novel lipopeptide antibiotic against Gram-positive pathogens. *Infect Drug Resist.* 2010;3:95-101. PMID: 21694898.

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