



Certificate of Analysis

www.tocris.com

ProductDaptomycin Catalog No.: 3917 Batch No.: 2

Name:

CAS Number: 103060-53-3

Storage:

IUPAC N-(1-Oxodecyl)

Name: -L-tryptophyl-D-asparaginyl-L- α -aspartyl-L-threonylglycyl-L-ornithinyl-L- α -aspartyl-D-alanyl-L- α -aspartylglycyl-D-seryl-(3R)-3-

methyl-L- α -glutamyl- α ,2-diamino- γ -oxo-benzene butanoic acid (13-4) lactone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{72}H_{101}N_{17}O_{26}.4H_2O$

Batch Molecular Weight: 1692.73

Physical Appearance: Pale yellow solid **Solubility:** DMSO to 100 mM

water to 20 mM Store at -20°C

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 97.6% purity

¹H NMR: Caution - Not Fully Tested Opsistent with Structure For Human or Veterinary Use

Mass Spectrum: Consistent with structure

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Found 51.17

6.48

13.92





Product Information

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CAS Number: 103060-53-3

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Description:

Lipopeptide, calcium-dependent antibiotic. Exhibits potent bacteriocidal activity against most gram-positive bacteria in vitro and in vivo, including antibiotic-resistant strains such as MRSA and VRE. Disrupts plasma membrane function; activity results in membrane depolarization leading to inhibition of protein, DNA and RNA synthesis.

Physical and Chemical Properties:

Batch Molecular Formula: C₇₂H₁₀₁N₁₇O₂₆.4H₂O

Batch Molecular Weight: 1692.73 Physical Appearance: Pale yellow solid

Minimum Purity: ≥95%

Batch Molecular Structure:

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM water to 20 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Steenbergen et al (2005) Daptomycin: a lipopeptide antibiotic for the treatment of serious gram-positive infections. J.Antimicrob Chemother. **55** 283. PMID: 15705644.

Jung *et al* (2004) Structural transitions as determinants of the action of the calcium-dependent antibiotic dapto. Chem.Biol. *11* 949. PMID: 15271353.