

PRODUCT: Daptomycin

ALTERNATE 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; LY 146032

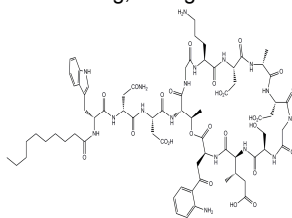
CATALOG #:

2582-10, 50

AMOUNT:

10 mg, 50 mg

STRUCTURE:



MOLECULAR FORMULA:

C₇₂H₁₀₁N₁₇O₂₆

MOLECULAR WEIGHT:

1620.67

CAS No.

103060-53-3

APPEARANCE:

Off-white solid

SOLUBILITY:

DMSO (>100 mg/ml) or EtOH (>50 mg/ml)

PURITY:

≥95%

STORAGE:

Store at -20°C. Protect from air and moisture

DESCRIPTION:

Daptomycin is a lipopeptide antibacterial antibiotic that exhibits rapid, concentration-dependent bactericidal activity against Gram-positive organisms *in vitro*. Daptomycin binds to bacterial membranes and causes a rapid depolarization of membrane potential. This loss of membrane potential causes inhibition of protein, DNA, and RNA synthesis, which results in bacterial cell death.

REFERENCES:

Steenbergen, J.R., *et al.* (2005). *J. Antimicrob. Chemother.* **55**, 283-288.

HANDLING:

Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

Amphotericin B (Cat. No. 2497-250, 1G, 5G)

Ampicillin trihydrate (Cat. No. 2483-1 G, 5G, 25 G)

Ampicillin sodium (Cat. No. 2484-1G, 5G, 25G)

EZSolution™ Ampicillin sodium (Cat. No. 2499-10)

Betulinic Acid (Cat. No. 1552-25)

Bexarotene (Cat. No. 1575-5, 50)

Blasticidin S, Hydrochloride (Cat. No. 1859-25,100)

Capecitabine (Cat. No. 1741-100, 1000)

Carboplatin (Cat. No. 1553-100)

Chloramphenicol (Cat. No. 2486-25G, 100G, 500G)

Cisplatin (Cat. No. 1550-100,1000)

Cycloheximide (Cat. No. 1041-1G, 5G)

Cycloheximide (100 mM) (Cat. No. 1041-1)

Daunorubicin.HCl (1524-10,50,500)

Doxorubicin HCl (Cat. No. 1527-5)

Fludarabine Phosphate (Cat. No. 1763-10, 50)

G-418 Sulfate (Cat. No. 1557-100, 5G, 25G)

Gemcitabine Hydrochloride (Cat. No. 1759-25, 100)

Genistein (Cat. No. 1533-10)

Nedaplatin (Cat. No. 1576-5)

Oxaliplatin (Cat. No. 1577-25)

Paclitaxel (Cat. No. 1567-25)

Penicillin G sodium (Cat. No. 2503-100, 500)

Penicillin G potassium (Cat. No. 2504-25, 100)

Polymyxin B Sulfate (Cat. No. 2496-10, 50, 100)

Puromycin DiHydrochloride (Cat. No. 1860-25, 100, 250, 500,1000)

EZSolution™ Puromycin Dihydrochloride (Cat. No. 1861-100)

Streptozocin (Cat. No. 1930-100, 500, 1000)

Tamoxifen Citrate (Cat. No. 1551-1000)

USAGE:

FOR RESEARCH USE ONLY! Not to be used in humans.