

Hello Bio, Inc.
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DATASHEET

Daptomycin

Product overview

| | |
|--------------------------|---|
| Name | Daptomycin |
| Cat No | HB4375 |
| Alternative names | LY 146032 |
| Biological action | Inhibitor |
| Description | Antibiotic. Protein, DNA and RNA inhibitor. |

Biological Data

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|-------------------------------|---|
| Biological description | Antibiotic. Shows potent anti-bacterial activity against most gram-positive bacteria. Disrupts the plasma membrane to induce rapid depolarization which inhibits protein, DNA and RNA synthesis. |
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Solubility & Handling

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| Storage instructions | -20 °C |
| Solubility overview | Soluble in DMSO (100 mM) and water (20 mM) |
| Important | This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use. |

Chemical Data

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|---------------------------|--|
| Chemical name | N-(1-Oxodecyl)-L-tryptophyl-D-asparaginy-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-?-oxo-benzene butanoic acid (13-4) lactone |
| Molecular Weight | 1620.67 |
| Chemical structure | |
| Molecular Formula | C ₇₂ H ₁₀₁ N ₁₇ O ₂₆ |
| CAS Number | 103060-53-3 |
| PubChem identifier | 16129629 |
| SMILES | CCCCCCCCC(=O)N[C@@H](CC1=CNC2=CC=CC=C21)C(=O)N[C@@H](CC(=O)N)C(=O)N[C@@H](CC(=O)O)C(=O)NC3C(OC(=O)[C@@H](NC(=O)[C@@H](NC(=O)[C@H](NC(=O)CNC(=O)[C@@H](NC(=O)[C@H](NC(=O)[C@@H](NC(=O)[C@@H](NC(=O)CNC3=O)CCCN)CC(=O)O)C)CC(=O)O)CC(=O)C4=CC=CC=C4N)C |
| InChiKey | DOAKLVKFULWEDJ-RWDRXURGSA-N |
| Appearance | Yellow |