

Hello Bio, Inc.  
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# DATASHEET

Daptomycin

## Product overview

<b>Name</b>	Daptomycin
<b>Cat No</b>	HB4375
<b>Alternative names</b>	LY 146032
<b>Description</b>	Antibiotic. Protein, DNA and RNA inhibitor.

## Biological Data

<b>Biological description</b>	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

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

## Chemical Data

<b>Chemical name</b>	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
<b>Molecular Weight</b>	1620.67
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>72</sub> H <sub>101</sub> N <sub>17</sub> O <sub>26</sub>
<b>CAS Number</b>	103060-53-3
<b>PubChem identifier</b>	16129629
<b>SMILES</b>	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)C(=O)C4=CC=CC=C4N)C
<b>InChiKey</b>	DOAKLVKFURWEDJ-RWDRXURGSA-N
<b>Appearance</b>	Yellow