



OP-145 PRODUCT DATA SHEET

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Product Name:	OP-145
Product Number:	O012
CAS Number:	Not Established
Molecular Formula:	$C_{142}H_{246}N_{46}O_{31}$
Molecular Weight:	3093.762
Appearance:	Off white to light yellow powder
Description:	OP-145 is a synthetic antimicrobial peptide (AMP) similar to the human cathelicidin LL-37. OP-145 consists of 24 amino acids and has demonstrated antibacterial and cytotoxic properties.
Mechanism of Action:	OP-145 interacts with phospholipids in bacterial and mammalian cell membranes leading to membrane thinning and permeabilization.
Spectrum:	OP-145 is active against <i>Staphylococcus aureus</i> at 0.8-1.6 μ M and may be effective against other Gram-positive bacteria.
References:	Malanovic, Nermina, Regina Leber, Maria Schmuck, Manfred Kriechbaum, Robert A. Cordfunke, Jan W. Drijfhout, Anna De Breij, Peter H. Nibbering, Dagmar Kolb, and Karl Lohner. "Phospholipid-driven Differences Determine the Action of the Synthetic Antimicrobial Peptide OP-145 on Gram-positive Bacterial and Mammalian Membrane Model Systems." <i>Biochimica Et Biophysica Acta (BBA) - Biomembranes</i> 1848.10 (2015): 2437-447.

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