

<b>Product Name:</b>	OP-145
<b>Product Number:</b>	O012
<b>CAS Number:</b>	Not Established
<b>Molecular Formula:</b>	$C_{142}H_{246}N_{46}O_{31}$
<b>Molecular Weight:</b>	3093.762
<b>Appearance:</b>	Off white to light yellow powder
<b>Description:</b>	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.
<b>Mechanism of Action:</b>	OP-145 interacts with phospholipids in bacterial and mammalian cell membranes leading to membrane thinning and permeabilization.
<b>Spectrum:</b>	OP-145 is active against <i>Staphylococcus aureus</i> at 0.8-1.6 $\mu$ M and may be effective against other Gram-positive bacteria.
<b>References:</b>	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.