



LKT Laboratories, Inc.

**Bactenecin**

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## Product Information

**Product ID** B0108

**CAS No.** 116229-36-8

**Chemical Name**

**Synonym** Arg-leu-cyclo(cys-arg-ile-val-val-ile-arg-val-cys)-arg, Bac7

**Formula** C<sub>63</sub>H<sub>118</sub>N<sub>24</sub>O<sub>13</sub>S<sub>2</sub>

**Formula Wt.** 1483.90

**Melting Point**

**Purity** ≥95%

**Solubility** Soluble in water (1 mg/mL).

H-Arg-Leu-Cys-Arg-Ile-Val-Val-Ile-Arg-Val-Cys-Arg-OH  
(Disulfide Bridge Cys3-Cys11)

## Pricing and Availability

**Bulk quantities available upon request**

Product ID	Size	List Price
B0108	0.5 mg	\$340.20
B0108	1 mg	\$579.60

**Store Temp** -20° C

**Ship Temp** Ambient

**Description** Bactenecin is a cathelicidin-derived antimicrobial peptide (AMP) found in bovine neutrophils. Bactenecin exhibits antibiotic activity, increasing membrane permeability and inhibiting growth. Bactenecin is an effective antibacterial peptide, displaying activity against *Burkholderia*, *Escherichia*, *Pseudomonas*, *Salmonella*, *Staphylococcus*, and *Enterobacter*.

**References** Madhonga K, Pasan S, Phophetleb O, et al. Antimicrobial action of the cyclic peptide bactenecin on *Burkholderia pseudomallei* correlates with efficient membrane permeabilization. *PLoS Negl Trop Dis*. 2013 Jun 13;7(6):e2267. PMID: 23785532.

Lee JY, Yang ST, Lee SK, et al. Salt-resistant homodimeric bactenecin, a cathelicidin-derived antimicrobial peptide. *FEBS J*. 2008 Aug;275(15):3911-20. PMID: 18616463.

Wu M, Hancock RE. Interaction of the cyclic antimicrobial cationic peptide bactenecin with the outer and cytoplasmic membrane. *J Biol Chem*. 1999 Jan 1;274(1):29-35. PMID: 9867806.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.