



LKT Laboratories, Inc.

Indolicidin

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Product Information

Product ID I5215

CAS No. 140896-21-5

Chemical Name

Synonym

Formula $C_{100}H_{132}N_{26}O_{13}$

Formula Wt. 1906.33

Melting Point

Purity $\geq 95\%$

Solubility Soluble in water (1 mg/mL),
DMSO.

Store Temp $-20^{\circ}C$

Ship Temp Ambient

Description

Indolicidin is an antimicrobial peptide (AMP) that interacts with and disrupts membranes. Indolicidin binds negatively charged lipid membranes and induces release of vesicle contents but does not form pores like other AMPs. Indolicidin exhibits antibacterial, hemolytic, and anti-inflammatory activities. This peptide displays antibiotic activity against both gram positive and gram negative bacteria, inhibiting growth of *Acinetobacter*, *Staphylococcus*, and *Nocardia*, among others. Additionally, indolicidin inhibits production of NO and iNOS in LPS-stimulated macrophages and inhibits production of TNF- α in various other cell lines.

H-Ile-Leu-Pro-Trp-Lys-Trp-Pro-
Trp-Trp-Pro-Trp-Arg-NH₂

Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
I5215	0.5 mg	\$189.00
I5215	1 mg	\$321.40
I5215	2.5 mg	\$567.00

References

Vila-Farres X, Garcia de la Maria C, López-Rojas R, et al. In vitro activity of several antimicrobial peptides against colistin-susceptible and colistin-resistant *Acinetobacter baumannii*. *Clin Microbiol Infect.* 2012 Apr;18(4):383-7. PMID: 21672084.

Végh AG, Nagy K, Bálint Z, et al. Effect of antimicrobial peptide-amide: indolicidin on biological membranes. *J Biomed Biotechnol.* 2011;2011:670589. PMID: 21765635.

Rieg S, Kaasch AJ, Wehrle J, et al. Susceptibility of clinical *Staphylococcus aureus* isolates to innate defense antimicrobial peptides. *Microbes Infect.* 2011 Aug;13(8-9):761-5. PMID: 21473929.

Rokitskaya TI, Kolodkin NI, Kotova EA, et al. Indolicidin action on membrane permeability: carrier mechanism versus pore formation. *Biochim Biophys Acta.* 2011 Jan;1808(1):91-7. PMID: 20851098.

Rieg S, Meier B, Fähnrich E, et al. Differential activity of innate defense antimicrobial peptides against *Nocardia* species. *BMC Microbiol.* 2010 Feb 23;10:61. PMID: 20178618.

Nan YH, Park KH, Park Y, et al. Investigating the effects of positive charge and hydrophobicity on the cell selectivity, mechanism of action and anti-inflammatory activity of a Trp-rich antimicrobial peptide indolicidin. *FEMS Microbiol Lett.* 2009 Mar;292(1):134-40. PMID: 19191872.

Bowdish DM, Davidson DJ, Scott MG, et al. Immunomodulatory activities of small host defense peptides. *Antimicrob Agents*

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