



LKT Laboratories, Inc.

Dermaseptin I

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Product Information

Product ID D1768

CAS No. 136212-91-4

Chemical Name Ala-Leu-Trp-Lys-Thr-Met-Leu-Lys-Lys-Leu-Gly-Thr-Met-Ala-Leu-His-Ala-Gly-Lys-Ala-Ala-Leu-Gly-Ala-Ala-Ala-Asp-Thr-Ile-Ser-Gln-Gly-Thr-Gln

Synonym

Formula $C_{152}H_{257}N_{43}O_{44}S_2$

Formula Wt. 3455.08

Melting Point

Purity ≥96%

Solubility Soluble in water.

Store Temp -20°C

Ship Temp Ambient

Description Dermaseptin is a cationic antimicrobial peptide (AMP) that exhibits antibacterial activity against *Acinetobacter* and *Pseudomonas*. Dermaseptin increases permeability of cell membranes. Dermaseptin also exhibits anticancer chemotherapeutic and anti-angiogenic activities, inhibiting proliferation, colony formation, and capillary formation in vitro as well as tumor growth in animal models of prostate adenocarcinoma.

Ala-Leu-Trp-Lys-Thr-Met-Leu-Lys-Lys-Leu-Gly-Thr-Met-Ala-Leu-His-Ala-Gly-Lys-Ala-Leu-Gly-Ala-Ala-Ala-Asp-Thr-Ile-Ser-Gln-Gly-Thr-Gln

Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
D1768	0.5 mg	\$214.30
D1768	1 mg	\$365.40
D1768	2.5 mg	\$643.00

References Jiang Z, Vasil AI, Vasil ML, et al. "Specificity Determinants" Improve Therapeutic Indices of Two Antimicrobial Peptides Piscidin 1 and Dermaseptin S4 Against the Gram-negative Pathogens *Acinetobacter baumannii* and *Pseudomonas aeruginosa*. *Pharmaceuticals* (Basel). 2014 Mar 25;7(4):366-91. PMID: 24670666.

Caillon L, Killian JA, Lequin O, et al. Biophysical investigation of the membrane-disrupting mechanism of the antimicrobial and amyloid-like peptide dermaseptin S9. *PLoS One*. 2013 Oct 11;8(10):e75528. PMID: 24146759.

van Zoggel H, Carpentier G, Dos Santos C, et al. Antitumor and angiostatic activities of the antimicrobial peptide dermaseptin B2. *PLoS One*. 2012;7(9):e44351. PMID: 23028527.

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