Product Data Sheet

Product Name: Dermaseptin
Cat. No.: GC32347

Chemical Properties

Cas. No.	136212-91-4		
SMILES	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		
Formula	$C_{152}H_{257}N_{43}O_{44}S_2$	M.Wt	3455.1
Solubility	Soluble in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	Dermaseptin		

Background

Dermaseptin, a peptide isolated from frog skin, exhibits potent antimicrobial activity against bacteria, fungi and protozoa.

Dermaseptin is a water-soluble, thermostable, and nonhemolytic peptide endowed with highly potent antimicrobial activity against pathogenic fungi at micromolar concentration. Circular dichroism spectra of dermaseptin in hydrophobic media indicated 80% alpha-helical conformation, and predictions of secondary structure suggested that dermaseptin can be configured as an amphiphatic alpha-helix spanning over residues 1-27, a structure that perturbs membrane functions regulating water flux[1]. Dermaseptin exerts a lytic action upon bacteria, protozoa, yeasts, and filamentous fungi at micromolar concentrations. Molecular elements responsible for the exceptional antimicrobial potency of dermaseptin are to be traced to the NH2-terminal alpha-helical amphipathic segment spanning residues 1-18 of the molecule[1].

[1]. Mor A, et al. Isolation, amino acid sequence, and synthesis of dermaseptin, a novel antimicrobial peptide of amphibian skin. Biochemistry. 1991 Sep 10;30(36):8824-30. [2].

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

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Mor A, et al. The NH2-terminal alpha-helical domain 1-18 of dermaseptin is responsible for antimicrobial activity. J Biol Chem. 1994 Jan 21;269(3):1934-9.

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