

Product Data Sheet

Product Name: Apidaecin IB

Cat. No.: GC32315

Chemical Properties

Cas. No. 123276-94-8

SMILES Gly-Asn-Asn-Arg-Pro-Val-Tyr-Ile-Pro-Gln-Pro-Arg-Pro-Pro-His-Pro-Arg-Leu

Formula $C_{95}H_{150}N_{32}O_{23}$ M.Wt 2108.41

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C 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

GNNRPVYIPQPRPPHPRL

Background

Apidaecin IB is an insect antimicrobial peptide, with minimum inhibitory concentration (MIC) values of 8 µM for E. coli (ML35, O18K1H7 and ATCC 25922).

Apidaecin IB is an insect antimicrobial peptide, with minimum inhibitory concentration (MIC) values of 8 µM for E. coli (ML35, O18K1H7 and ATCC 25922), 64 µM for K. pneumoniae 22, 8-16 µM for S. enteritidis (D5, PD1) and 4-8 µM for S. typhimurium ATCC 14028[1].

Caution: Product has not been fully validated for medical applications. For research use only.

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[1]. Gobbo M, et al. Substitution of the arginine/leucine residues in apidaecin Ib with peptoid residues: effect on antimicrobial activity, cellular uptake, and proteolytic degradation. J Med Chem. 2009 Aug 27;52(16):5197-206.

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