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LL-37 (human)

Product overview

Name Cat No Biological description LL-37 (human) HB4444

Cell permeable antimicrobial host defense peptide derived from the C-terminal of human cathelicidin. Acts on host cells to exert immunomodulatory functions as part of its role in host defense and immunity. Mediates chemotaxis, promotes wound healing, angiogenesis and induces tumorigenic effects in various cancers.

Recently shown to reduce SARS-CoV-2 infection by blocking the S1 spike protein RBD (receptor binding domain) (K_d = 11.2 nM). LL-37 inhibits SARS-CoV-2 pseudovirion infection (IC₅₀ = 4.74 μ g/mL) *in vitro* and *in vivo* and also binds to ACE2 (K_d = 25.5 nM) to cloak the LBD (ligand binding domain) to decrease S1 adherence and protect cells against pseudovirion infection *in vitro*.

Displays antimicrobial, antibacterial, antitumour, anti-cancer and antiviral activities.

Alternative names Biological action Purity Description Control Peptide also available. Ropocamptide, hCAP 18, Cathelicidin Peptide >95% Antimicrobial peptide. Reduces SARS-Cov2 infection.

Solubility & Handling

 Storage instructions
 -20°C

 Solubility overview
 Soluble in aqueous buffer (1 mg/ml), and in DMSO

 Important
 This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

Chemical Data

Molecular Weight4493.3Molecular FormulaC205H340N60O53Sequence (one letter)LLGDFFRKSKEKIGKEFKRIVQRIKDFLRNLVPRTESSequence (three letter)H-Leu-Leu-Gly-Asp-Phe-Phe-Arg-Lys-Ser-Lys-Glu-Lys-Ile-Gly-Lys-Glu-Phe-Lys-Arg-Ile-Val-Gln-Arg-
Ile-Lys-Asp-Phe-Leu-Arg-Asn-Leu-Val-Pro-Arg-Thr-Glu-Ser-OHCAS Number154947-66-7PubChem identifier16198951InchiKeyPOIUWJQBRNEFGX-XAMSXPGMSA-N

References

Spotlight on Human LL-37, an Immunomodulatory Peptide with Promising Cell-Penetrating Properties

Seil et al (2010) Pharmaceuticals (Basel). 3(11)

Wang C *et al* (2021) ACS Infect Dis 7(6) **PubMedID** 33849267