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DATASHEET

LL-37 (human)

Product overview

 Name
 LL-37 (human)

 Cat No
 HB4444

Biological descriptionCell 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 ($IC_{50} = 4.74$ $\mu g/mL$) *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.

Control Peptide also available.

Alternative names Ropocamptide, hCAP 18, Cathelicidin

Biological action Peptide Purity >95%

Description 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

Sequence (one letter) LLGDFFRKSKEKIGKEFKRIVQRIKDFLRNLVPRTES

Sequence (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-OH

CAS Number 154947-66-7 **PubChem identifier** 16198951

InChiKey POIUWJQBRNEFGX-XAMSXPGMSA-N

References

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

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

Human Cathelicidin Inhibits SARS-CoV-2 Infection: Killing Two Birds with One Stone

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

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