We are pleased to present our enlarged offer of LL-37-related peptides.

The antimicrobial 37-mer peptide LL-37, the only human member of the cathelicidin family, and its fragments have been extensively studied, as the peptides also show antiviral and angiogenic activities. Recently, LL-37 gained interest in cancer research by showing therapeutic potential. The core sequence of the peptide, residues 12-29, forms an amphiphilic α-helix. The antibacterial activity of LL-37 fragments correlates with their α-helical content.

For our complete range of amino acid derivatives, peptides, and biochemicals please visit shop.bachem.com

---

**LL-37**

**LL-37**

(Antibacterial Protein LL-37 (human); LL37, CAMP)

H-7298

LL-37 is an antimicrobial peptide with angiogenic activity. It corresponds to the C-terminal sequence (134-170) of the human cathelicidin antimicrobial protein hCAP18/LL-37 and is extracellularly released from hCAP18/LL-37 by proteolytic processing, hCAP18/LL-37 is an effector of the innate immune system and is expressed in leukocytes and epithelial cells where it is upregulated in association with inflammation and injury. An overexpression of hCAP18/LL-37 in a series of breast carcinomas could be demonstrated. LL-37 has been suggested to stimulate epithelial cell proliferation partially through formyl peptide receptor-like 1 (FPRL1) since blocking the receptor with pertussis toxin decreased the proliferative effect of LL-37 by approximately 50 %.


<table>
<thead>
<tr>
<th>LL-37 Sequences</th>
<th>H-7868</th>
</tr>
</thead>
<tbody>
<tr>
<td>LL-37 FK-13</td>
<td></td>
</tr>
<tr>
<td>LL-37 FKR (FK-21), C-terminal fragment of LL-37, showed antimicrobial activity and similar concentration-dependent chemotactic activities on granulocytes as the full-length peptide.</td>
<td></td>
</tr>
</tbody>
</table>

---

**Control peptides for LL-37.**


<table>
<thead>
<tr>
<th>Biotinyl-LL-37</th>
<th>H-7906</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biotinyl-eAhx-LL-37 (scrambled)</td>
<td>H-7896</td>
</tr>
<tr>
<td>(Biotin-LC-LL 37 (scrambled))</td>
<td></td>
</tr>
</tbody>
</table>

---

**5-FAM-LL-37 (scrambled)**

H-7888

**Tide Fluor™ 2-LL-37**

NEW

H-8286

**Dye-labeled LL-37**, excitation 500nm, emission 527nm. Tide Fluor™-2 shows an excellent photostability and brightness, its fluorescence is pH-insensitive.

**Tyrl-LL-37**

H-7902

**LL-37 amide**

H-6224

**LL-37 amide is an antimicrobial peptide with angiogenic activity.**


---

**FK-13, core sequence of LL-37, is protected from bacterial proteolysis by actin. FK-13 showed activity against HIV-1, EC₅₀ 3.4 μM. As removal of the N-terminal phenylalanine leads to inactivation, FKRLRKKDFLR corresponds to the minimal anti-HIV region of human LL-37.**


---

**LL-37 Sequences**

**LL-37 FK-13**

H-7868

**LL-37 FKR**

H-7874
bacterial activity. KR12 displays a selective toxic effect on bacteria but not on human cells. It may be used as a template for developing novel antimicrobial agents of therapeutic use.


Biotinyl-KR-12 (human) H-7904

**Further Cathelicidins**

**CRAMP (mouse)** H-6526

CRAMP (cathelicidin-related antimicrobial peptide) is expressed in the embryonic and adult mouse. Functional studies showed CRAMP to be a potent antibiotic against Gram-negative bacteria by inhibiting growth of a variety of bacterial strains and by permeabilizing the inner membrane of E.coli directly.


**CRAMP-18 (mouse)** H-6528

CRAMP-18 corresponds to the functional region of the antibacterial peptide CRAMP. It displayed potent antibacterial activity against several bacteria with no hemolytic activity (minimal inhibitory concentration: 12.5-50 μM).


**LL-37 GKE** H-7872

LL-37 GKE (GK-21) displayed antimicrobial activity against various bacteria that was similar to or even stronger than the activity of full-length LL-37.


**LL-37 KRI** H-7876

KR-20 corresponds to LL-37 (18-37). The fragment, which has been detected in human sweat, shows increased antimicrobial activity.


**LL-37 LLG** H-7878

**LL-37 RKS** H-7882

The antimicrobially active LL-37 fragments RK-31 and KR-20 (H-7876) have been identified as physiological components of human sweat.


**LL-37 SKE** H-7884

SK-21 (LL-37 SKE) showed activity against HIV-1.


**KR-12 amide (human)** H-6688

KR-12 corresponds to amino acid residues 18-29 of LL-37 and is the smallest peptide of LL-37 retaining anti-

**In addition to our thousands of catalog peptides, we offer comprehensive custom synthesis services. If the LL-37 peptide you require is not included in this list, please ask for a quote.**

**Marketing & Sales Contact**

Europe, Africa, Middle East and Asia Pacific

Bachem AG
Tel. +41 58 595 2020
sales.ch@bachem.com

Americas

Bachem Americas, Inc.
Tel. +1 888 422 2436 (toll-free in USA & Canada)
+1 310 539 4171
sales.us@bachem.com

Visit our website

www.bachem.com
or shop online

shop.bachem.com

All information is compiled to the best of our knowledge. We cannot be made liable for any possible errors or misprints. Some products may be restricted in certain countries.

www.bachem.com

shop.bachem.com