



## UNDERSTANDING YOUR TREATMENT

**LL-37**

A human antimicrobial peptide (cathelicidin) studied for immune defense and wound healing.

- i** LL-37 is the only human cathelicidin antimicrobial peptide — a 37-amino acid cationic peptide cleaved from the precursor hCAP18 by proteinase 3. It serves as a first-line innate immune defense expressed in neutrophils, epithelial cells, and macrophages. LL-37 demonstrates broad-spectrum antimicrobia

## HOW IT WORKS

**1****Compound Class**

Human cathelicidin antimicrobial peptide (37 amino acids)

**2****Mechanism**

Directly disrupts microbial membranes, modulates immune cell recruitment, promotes angiogenesis and wound healing

**3****Research Focus**

Antimicrobial defense, wound healing, immune modulation, biofilm disruption

**Talk to your prescriber about whether LL-37 may be right for you**

This compound is available by prescription only



## WHAT RESEARCHERS HAVE FOUND

### Antimicrobial Activity

LL-37 demonstrates broad-spectrum antimicrobial activity against gram-positive and gram-negative bacteria, certain viruses, and fungi by disrupting microbial membrane integrity.

*Nature Reviews Microbiology, 2009*

### Biofilm Disruption

LL-37 can penetrate and disrupt bacterial biofilms, potentially improving antibiotic susceptibility in chronic biofilm-associated infections.

*PLoS Pathogens, 2012*

## QUESTIONS TO ASK YOUR PROVIDER

- ? What evidence level supports LL-37 for this patient's indication?
- ? What monitoring protocol should I establish?
- ? Are there contraindications or interactions to screen for?
- ? What is the recommended duration and cycling protocol?
- ? What is the current regulatory status?

## IMPORTANT SAFETY INFO

LL-37 is an investigational compound — human dosing studies are limited

At high concentrations, cathelicidins can be cytotoxic to host cells — dosing must be carefully controlled

May cause injection site reactions including redness, warmth, and transient discomfort

Patients with autoimmune skin conditions (e.g., rosacea, psoriasis) should discuss with provider — LL-37 is elevated in some inflammatory skin diseases

Not recommended during pregnancy or for immunocompromised patients without specialist guidance

Have Questions?

**Eternal Beauty Medical Aesthetics**

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<https://www.eternalbeautytxarkana.com>

This is a compounded preparation and is NOT an FDA-approved product. It is prepared by a licensed pharmacy based on a prescription from your healthcare provider. The safety and efficacy of this compounded preparation have not been established by the FDA.