

RESEARCH PEPTIDE

LL-37

Immunity

INNATE DEFENSE. HEALING. RESILIENCE.



RESEARCH
TODAY



DISCOVER
TOMORROW



A HEALTHIER
HUMAN POTENTIAL



SCIENCE
INSPIRES
HUMAN
POTENTIAL



WHAT IS LL-37 AND WHY IS IT STUDIED?

LL-37 is a naturally occurring antimicrobial peptide that plays a crucial role in the body's innate immune system. It is primarily known for its ability to combat a wide range of pathogens, including bacteria, viruses, and fungi. By disrupting the membranes of these microorganisms, LL-37 helps to prevent infections and supports the initial immune defense at sites of injury or inflammation.

In the human body, LL-37 exerts its effects through multiple mechanisms. It binds to cell membranes and triggers signaling pathways that modulate immune cell activity, leading to controlled inflammation and enhanced wound healing. LL-37 also helps maintain the integrity of barrier tissues, such as the skin and mucous membranes, by stimulating the regeneration of epithelial cells. Through these actions, LL-37 not only provides antimicrobial protection but also aids in recovery and regeneration following tissue damage.



AT A GLANCE



5 mg vial



Research focus: antimicrobial defense, immune support, tissue healing, inflammation modulation, barrier integrity



Category: Immunity

Format: lyophilized powder



WHAT IT IS STUDIED FOR

- Antimicrobial defense
- Immune support
- Tissue healing
- Inflammation modulation
- Barrier integrity support



HOW IT MAY WORK

- Helps disrupt microbial membranes (bacteria, viruses, fungi)
- Modulates immune cell activity
- Supports controlled inflammation
- Promotes tissue repair and regeneration
- Helps maintain skin and mucous membrane integrity



RESEARCH TIMELINE / EXPECTATIONS

1-2 WEEKS

Initial immune and antimicrobial effects may be noticed.

WEEKS 3-6

Ongoing immune support, tissue recovery, and inflammation modulation may be observed.

WEEKS 7-8

Continued benefits in barrier integrity and healing may be seen.

POST-CYCLE

Take 4 weeks off. Individual responses vary based on research context and research goals.



PROTOCOL DETAILS

Reconstitution	1 mL bacteriostatic water
Dosage range	225 mcg – 500 mcg (5 units – 10 units)
Frequency	AM daily
Route / administration	Subcutaneous
Research duration	50 days straight, then 4 weeks OFF
Est. bottles needed	2.5 – 5 bottles
Notes	Subcutaneous belly fat or thigh injections. Improper use may risk overstimulation, Herxheimer-type reactions (detox-like symptoms).



DOSING CONVERSION (EXAMPLE)

1 mL BAC Water = 5,000 mcg total
5 units (225 mcg) – 10 units (500 mcg) per dose
 (Based on 5 mg vial reconstituted with 1 mL)



ESTIMATED CYCLE SUPPLY

2.5 – 5 bottles
 (Based on 50 days of research at 5 – 10 units daily)



IMPORTANT CONSIDERATIONS

- For educational and research purposes only
- Not for human use
- Limited human research data
- Use only as part of a broader research plan
- Store appropriately after reconstitution



EVIDENCE LEVEL

- Human research – Emerging
- Animal research – Moderate
- Mechanistic evidence – Strong
- Long-term safety data – Limited



RESEARCH USE DISCLAIMER

For educational and research use only. Not for human use. Not approved by the FDA or any other regulatory authority. Research compounds are not intended for diagnosis, treatment, or prevention of any disease.