PEPTIDE

LL-37 (Cathelicidin)

Cationic ±helical antimicrobial peptide derived from CAP-18; disrupts microbial membranes via toroidal pore formation.

BIOGATE · AMBER | POSTERIOR 15.6% | MW 4493.3 | 37AA

SEQUENCE

LLGDFFRKSKEKIGKEFKRIVQRIKDFLRNLVPRTES

Modifications: amidated

PDA-V1 chain of custody

Outer hash

```
04653963036537-
d006653c8905653af608653faf07653e1c0a6542d509654142
```

Merkle root

```
daad1158dbad12ebdcad147ed-
dad1611dead17a4dfad1937e0ad1acae1ad1c5d
```

Inputs

```
3-
b8ac2e33a8ac1503d8ac6093c8ac4763f8ac92f3e8ac79c418acc55
```

TEE attestation

```
846-
afaee856afc81826af7c8836af95b886b013a896b02cd866afe14876affa7
```

Living Outcome Oracle

± =12.6 ² =68.3 **P(success) = 15.6%**

95% CI [3.6%, 27.6%]

Seven-rule export gate

7 / 7 rules satisfied · audience: researcher · Full attestation set, raw posteriors, all hashes

- Grade A or B citation present on the core claim
- BioGate verdict is GREEN or AMBER (RED/BLACK refused)
- Jurisdiction permits the audience-appropriate use
- RWE summary attached when claim depends on outcome data
- Prediction-outcome pairs disclosed when posterior cited
- No human-use claim beyond cited indications
- COA registry lookup available for any synthesis claim

Citations

GRADE A — 2003 · Cell Mol Life Sci

Cathelicidins - a family of multifunctional antimicrobial peptides

Bals R, Wilson JM.

PMID 11274165