PEPTIDE

GHK-Cu

Tripeptide-copper complex; modulates gene expression in dermal fibroblasts and downregulates TGF-²scarring pathways.

BIOGATE · GREEN | POSTERIOR 35.6% | MW 340.9 | 3AA

SEQUENCE

GHK

Modifications: copper(II) chelate

PDA-V1 chain of custody

Outer hash

c57aa51dc47aa38ac37aa1f7c27aa064c17a9ed1c07a9d3ebf7a9ba

Merkle root

a29671f0a3967383a4967516a59676a9a696783ca79679cfa8967b62a9967cf5

Inputs

1592199-
d1492180a13921677129214e411921351109211be0f92102b0e920e

TEE attestation

c18a8ea6c28a9039bf8a8b80c08a8d13c58a94f2c68a9685c38a91ccc48a935f

Living Outcome Oracle

± =41.5 ² =75.1 **P(success) = 35.6%**

95% CI [23.6%, 47.6%]

Suggested protocol

Dermal & Follicular Renewal

GRADE B

Photoaged skin, scalp follicle restoration in androgenic-alopecia early stage

Dose protocol redacted for researcher audience.

MONITORING ENDPOINTS

- modified Hamilton-Norwood
- trichoscopy follicular density
- VISIA wrinkle score

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

2018 · Int J Mol Sci

The Effect of the Human Peptide GHK on Gene Expression Relevant to Skin

Pickart L, Margolina A.

PMID 26371021