



## Tripeptide-1

<b>INCI name:</b>	<b>Tripeptide-1</b>
Peptide Sequence:	Gly-His-Lys
Molecular Formula:	$C_{14}H_{24}N_6O_4$
Molecular weight:	340.5
Cas No.	72957-37-0
Synonym:	Kollaren
Application:	Cosmetics – anti-aging, firming care, remodeling skin care, anti-photoaging
Packaging:	bottle
Filling quantity:	1 g / bottle 5 g / bottle 10 g / bottle special packaging upon request
Storage and Shelf life:	-20 °C, dark and clean shelf life 24 months and + 6 to +8° C dark and clean shelf life 6 months



Product Spezifikation

**Tripeptide-1**

Manufacturing date: 05.03.2018

Expiry date: 05.02.2020

Test	Specification	Batch 20180503
Appearance	white powder	conforms
Identity by HPLC	the retention is same with the reference substance	conforms
Identity by MS	340.50 ± 1	conforms
Solubility	soluble in water	conforms
Amino acid composition	± 10 % of theoretical	conforms
Peptide purity (by HPLC)	≥ 95.0 % by area integration	98.56 %
Water content (Karl Fischer)	≤ 8.0 %	3.55 %

**Characteristics**

Tripeptide-1 is a synthetic peptide comprised of three amino acids: Gly-His-Lys. GHK is a matrikine peptide messenger notably involved in the process of cutaneous repair. GHK is a tripeptide fragment of the collagen chain. Tripeptide-1 stimulates collagen and glycosaminoglycan synthesis; its activity stands comparison with retinoic acid and is thus recommended for the restructuration of dermal matrix (firming and anti-wrinkle action). Thanks to protein and glycan neosynthesis, skin grows thicker, firmer and wrinkles become smoother. The production of extracellular matrix also protects skin against UV rays.

Use level: 0.001 – 0.05 %

**Cosmetic benefits**

Tripeptide-1 stimulates collagen and glycosaminoglycan synthesis, reinforces the epidermis, diminished wrinkles