

Product Specification

Copper Tripeptide-1 / GHK-Cu

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1. Product Information

Item	Information
Product Name	Copper Tripeptide-1
INCI Name	Copper Tripeptide-1
Chinese Name	三肽-1 铜 / 蓝铜肽 / 蓝铜胜肽
Synonyms	GHK-Cu, Copper Peptide, Copper Tripeptide-1
CAS No.	89030-95-5
Molecular Formula	$C_{14}H_{22}CuN_6O_4 \cdot xHCl$
Molecular Weight	$401.91 + x \cdot 36.5$
Grade	Cosmetic Grade
Appearance	Blue crystalline powder
Intended Use	Cosmetic raw material
Shelf Life	2 years under recommended storage conditions
Storage Conditions	Keep sealed in a dark, cold, and dry place. Recommended storage temperature: $-20^{\circ}C$ to $8^{\circ}C$.

2. Quality Specification

Test Item	Specification	Test Method
Appearance	Blue crystalline powder	Visual
Identification	Conforms to standard	ESI-MS

Test Item	Specification	Test Method
Theoretical Molecular Weight	401.91	ESI-MS
Purity	≥98.0%	HPLC
Copper Content	8.0%–16.0%	Internal Method
Water Content	≤8.0%	Karl Fischer
Chloride Content	≤10.0%	IC
pH	5.5–7.5	2.0% Water Solution
GHK Content	65.0%–85.0%	Internal Method / HPLC
Solubility	≥100 mg/mL in water	Internal Method
Conclusion	Conforms to standard	—

3. Packaging

Item	Specification
Sample Packaging	Small sample package available upon request, such as 1 g / 5 g / 10 g, subject to sample arrangement
Standard Bulk Packaging	1kg,5kg
Customized Packaging	Available upon order quantity and packing confirmation
Label Information	Product name, batch number, net weight, manufacturing date, expiry date, and storage condition

4. Storage

Store in a tightly closed container, protected from light, moisture, and high temperature.

Recommended storage condition: **-20°C to 8°C**.

After opening, the product should be resealed immediately and used as soon as possible to avoid moisture absorption or contamination.

5. Documentation Available

The following documents may be provided for customer review:

- Certificate of Analysis / COA
 - SDS / MSDS
 - Product Specification
 - Technical Data Sheet / TDS
 - HPLC Method Summary, available upon request
 - Company and manufacturing system documents may be provided upon project review, where applicable
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6. Remarks

This specification is prepared based on the current product quality standard and reference COA. Final product release shall be subject to the actual batch COA.

Detailed HPLC method information and representative chromatograms can be provided upon request.

Any special specification, packaging, documentation, or regulatory requirement should be confirmed before order placement.