

PRODUCT INFORMATION



Copper Tripeptide-3 (hydrochloride)

Item No. 45777

Formal Name: [L-alanyl-κN-L-histidyl-κN,κN³-L-lysinato(2-)]-copper, dihydrochloride

Synonym: AHK-Cu

MF: C₁₅H₂₄CuN₆O₄ • 2HCl

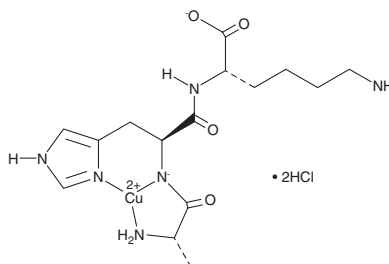
FW: 488.9

Purity: ≥90%

Supplied as: A solid

Storage: -20°C

Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Copper tripeptide-3 (hydrochloride) is supplied as a solid. Aqueous solutions of copper tripeptide-3 (hydrochloride) can be prepared by directly dissolving the solid in aqueous buffers. Copper tripeptide-3 (hydrochloride) is sparingly soluble (1-10 mg/ml) in PBS (pH 7.2). We do not recommend storing the aqueous solution for more than one day.

Description

Copper tripeptide-3 is a cosmeceutical copper (II)-peptide complex.¹ It inhibits apoptosis and increases the viability of primary dermal papilla cells (DPCs) at a concentration of 1 nM. Copper tripeptide-3 increases hair follicle length at concentrations of 0.001-1 nM but decreases it at concentrations of 10-100 nM in *ex vivo* human hair follicles. Formulations containing copper tripeptide-3 have been used in anti-aging cosmetics.

Reference

1. Pyo, H.K., Yoo, H.G., Won, C.H., *et al.* The effect of tripeptide-copper complex on human hair growth *in vitro*. *Arch. Pharm. Res.* **30**(7), 834-839 (2007).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

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