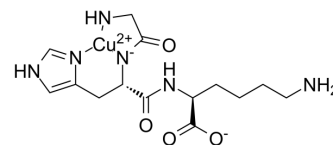


## Copper tripeptide

Cat. No.:	HY-P0063
CAS No.:	89030-95-5
Molecular Formula:	C <sub>14</sub> H <sub>21</sub> CuN <sub>6</sub> O <sub>4</sub>
Molecular Weight:	400.9
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Sealed storage, away from moisture and light
	Powder    -80°C    2 years
	-20°C    1 year



\* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)

### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 62.5 mg/mL (155.90 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.4944 mL	12.4719 mL	24.9439 mL
5 mM	0.4989 mL	2.4944 mL	4.9888 mL
10 mM	0.2494 mL	1.2472 mL	2.4944 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Copper tripeptide (GHK-Cu) is a tripeptide. During wound healing, copper tripeptide may be freed from existing extracellular proteins via proteolysis and serves as a chemoattractant for inflammatory and endothelial cells. Copper tripeptide has been shown to increase messenger RNA production for collagen, elastin, proteoglycans, and glycosaminoglycans in fibroblasts. Copper tripeptide is a natural modulator of multiple cellular pathways in skin regeneration<sup>[1]</sup>.

#### In Vitro

Copper tripeptide (1 nM; 0-96 hours) affects irradiated fibroblasts such that their population-doubling times approximated that of controls<sup>[1]</sup>.

Copper tripeptide (1 nM; 0-120 hours) significantly produces more basic fibroblast growth factors than normal controls at a 24-hour interval of irradiated fibroblasts<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### CUSTOMER VALIDATION

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- J Appl Toxicol. 2021 Oct 21.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

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[1]. Pollard JD, et al. Effects of copper tripeptide on the growth and expression of growth factors by normal and irradiated fibroblasts. Arch Facial Plast Surg. 2005 Jan-Feb;7(1):27-31.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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