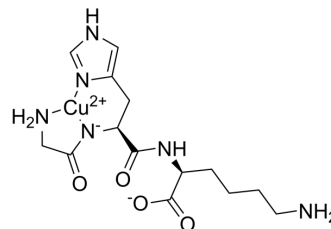


Copper tripeptide

Cat. No.:	HY-P0063
CAS No.:	89030-95-5
Molecular Formula:	C ₁₄ H ₂₂ CuN ₆ O ₄
Molecular Weight:	401.91
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

H₂O : 50 mg/mL (124.41 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.4881 mL	12.4406 mL	24.8812 mL
5 mM	0.4976 mL	2.4881 mL	4.9762 mL
10 mM	0.2488 mL	1.2441 mL	2.4881 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^[1].

In Vitro

Copper tripeptide (1 nM; 0-96 hours) affects irradiated fibroblasts such that their population-doubling times approximated that of controls^[1].
 ?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^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

-
- J Appl Toxicol. 2021 Oct 21.

See more customer validations on www.MedChemExpress.com

REFERENCES

[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.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA