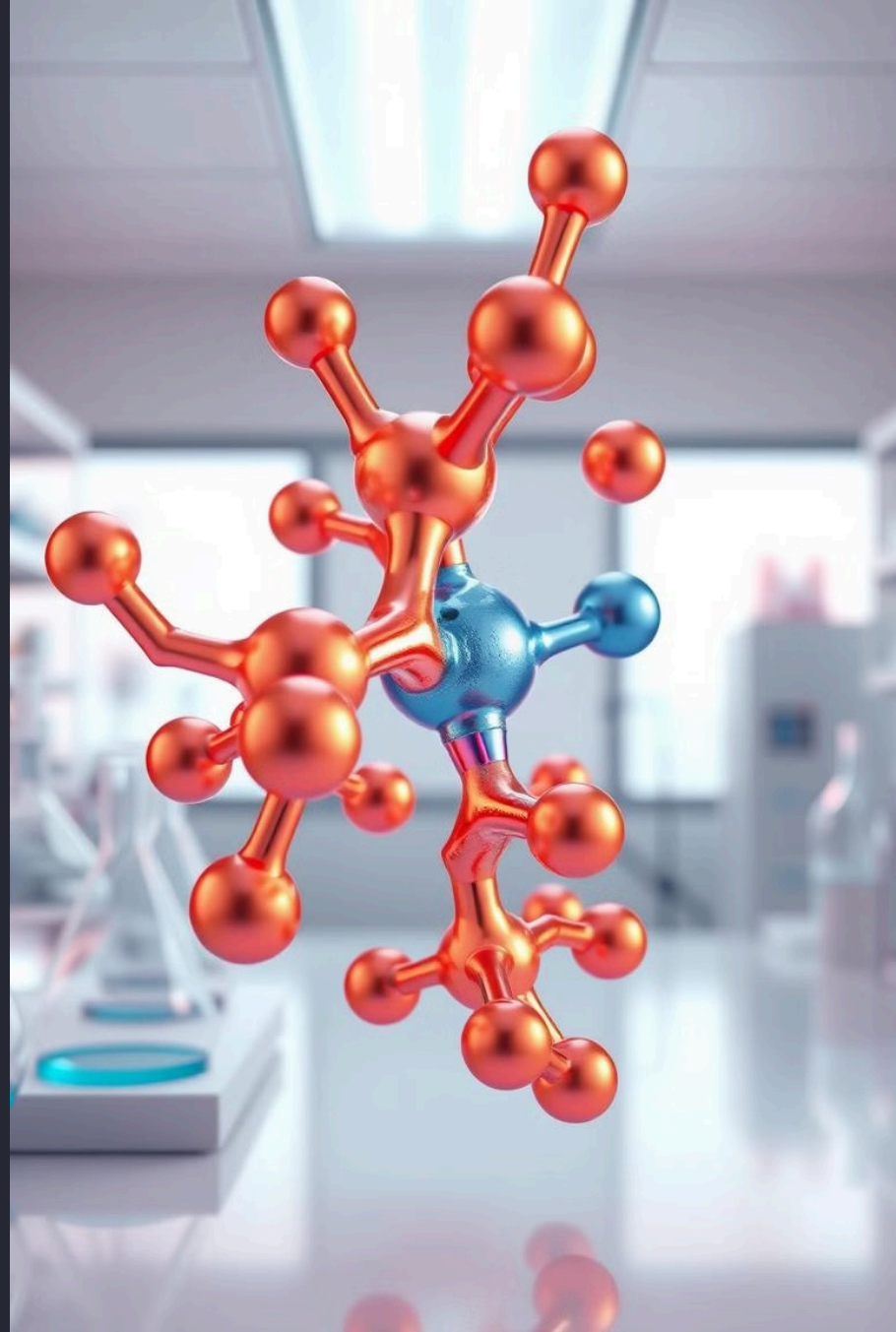
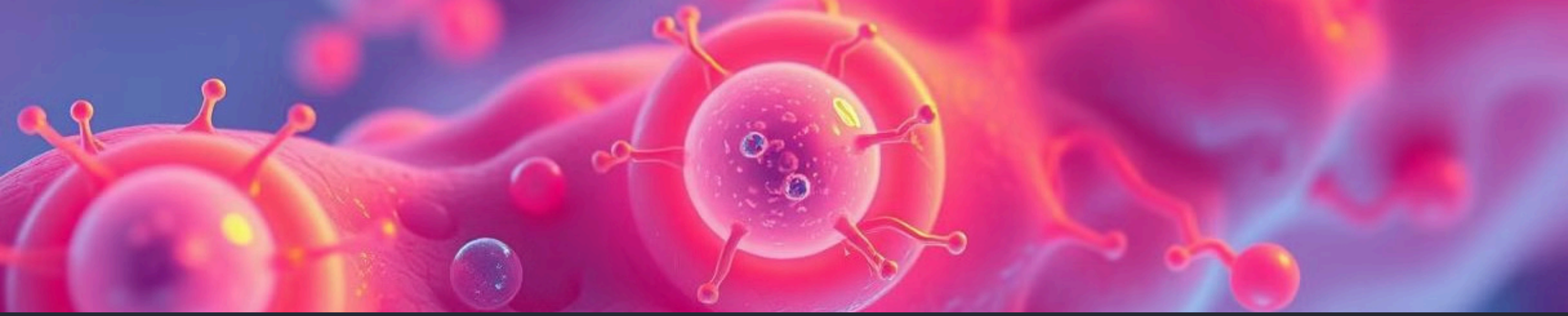
Copper Tripeptide: A Multifaceted Regenerative Compound

Copper Tripeptide is a naturally occurring human blood peptide with diverse regenerative properties. It declines with age but offers numerous benefits for tissue repair and cellular function.





Tissue Regeneration and Wound Healing

1. ## Skin Repair

   Copper Tripeptide accelerates skin healing and regeneration, promoting faster wound closure.

2. ## Hair Follicle Stimulation

   It enhances hair growth by rejuvenating dormant follicles and improving scalp health.

3. ## Gastrointestinal Healing

   The peptide aids in repairing stomach and intestinal linings, supporting digestive health.

4. ## Bone Tissue Regeneration

   It promotes bone tissue formation, potentially aiding in fracture healing and osteoporosis management.

Extracellular Matrix Enhancement

Collagen Production

Copper Tripeptide stimulates collagen synthesis, improving skin elasticity and strength.

Glycosaminoglycans

It increases glycosaminoglycan production, enhancing tissue hydration and resilience.

Decorin Synthesis

The peptide promotes decorin production, crucial for proper collagen fiber organization.

Vascular and Neural Effects

1 **Angiogenesis**

Copper Tripeptide stimulates the formation of new blood vessels, improving tissue oxygenation.

2 **Nerve Outgrowth**

It promotes nerve regeneration and growth, potentially aiding in neurological recovery.

3 **Cellular Communication**

The peptide enhances intercellular signaling, optimizing tissue function and repair processes.

Antioxidant and Anti-inflammatory Properties

Free Radical Scavenging

Copper Tripeptide acts as an antioxidant, protecting cells from oxidative stress.

Inflammation Reduction

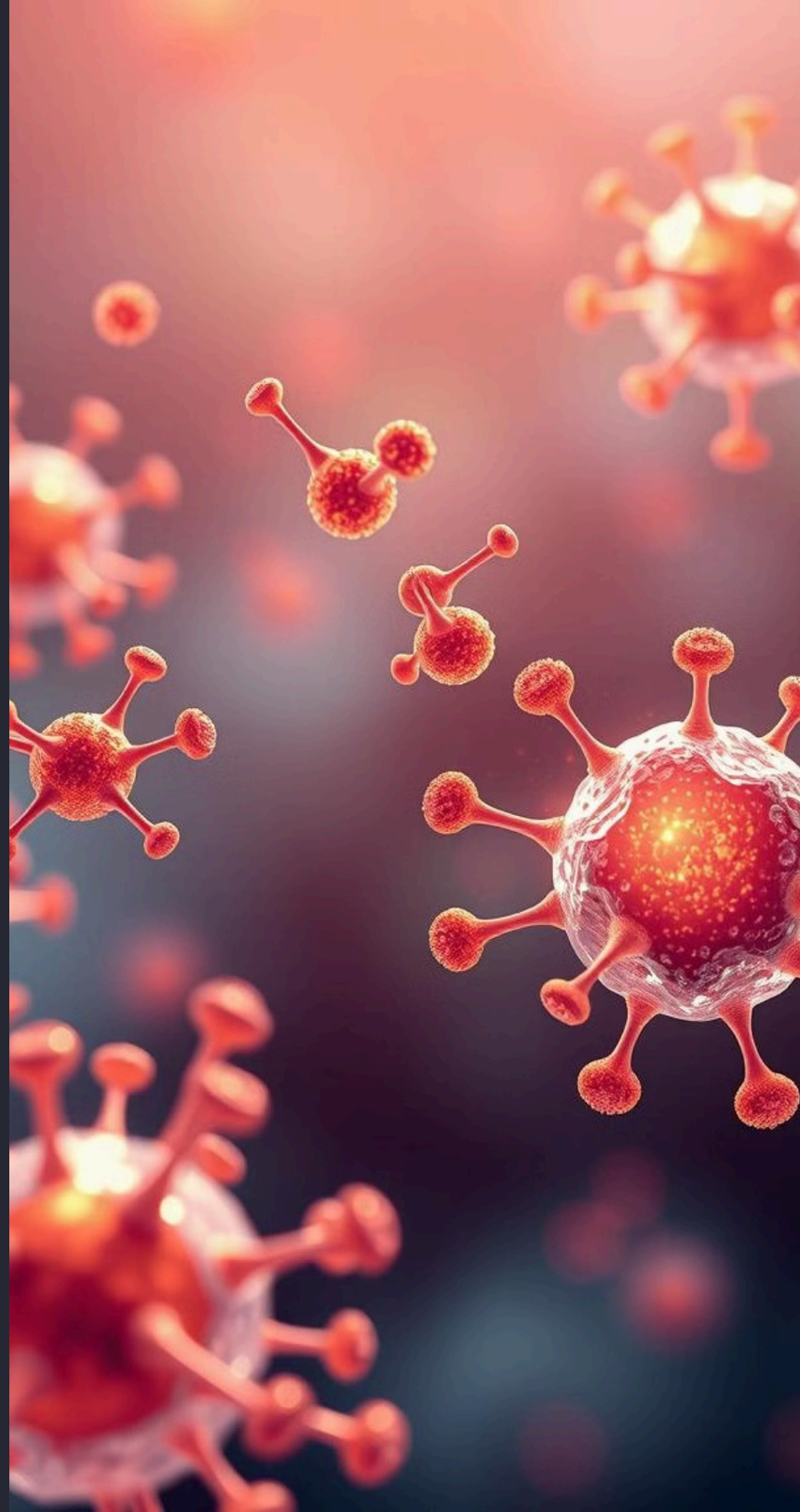
It helps mitigate inflammatory responses, promoting a balanced healing environment.

Cellular Protection

The peptide shields cells from damage, potentially slowing aging processes.

Gene Activation

It activates antioxidant genes, enhancing the body's natural defense mechanisms.



Molecular and Genetic Influences

DNA Repair

Copper Tripeptide activates DNA repair genes, maintaining genomic integrity.

Protein Regulation

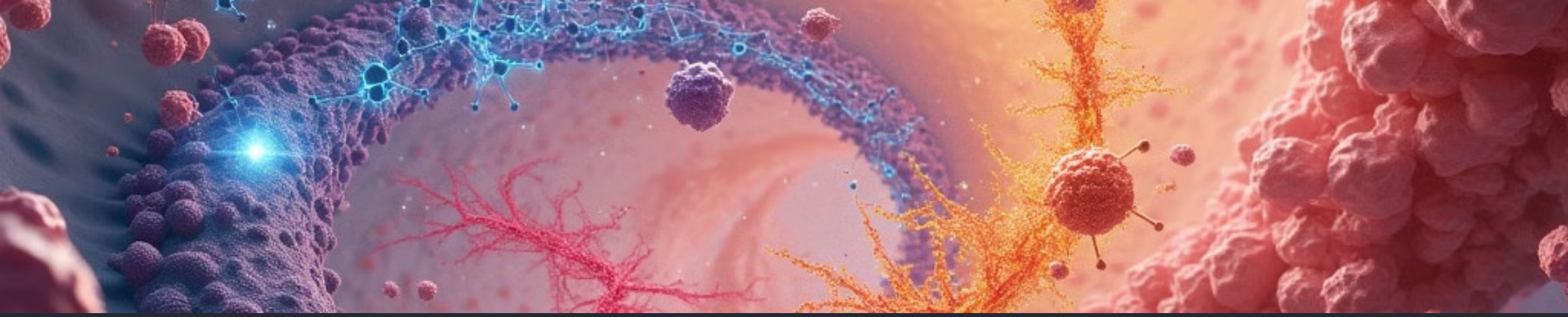
It influences the Ubiquitin/Proteasome System, regulating protein turnover.

Cellular Stemness

The peptide increases cellular stemness, enhancing regenerative potential.

Growth Factor Modulation

It affects the TGF superfamily, influencing tissue repair processes.



Metabolic and Cancer-Related Effects

Effect	Function	Potential Impact
Insulin Suppression	Reduces insulin and insulin-like gene expression	May influence metabolism and aging
Fibrinogen Reduction	Suppresses fibrinogen synthesis	Potential cardiovascular benefits
Cancer Gene Modulation	Affects cancer-controlling genes	Possible anti-cancer properties

Administration and Dosage

1

Vial Preparation

30 mg vial of Copper Tripeptide is reconstituted with 6 mL solution.

2

Dosage Measurement

20 units are drawn into a syringe for each dose.

3

Administration

The solution is injected subcutaneously daily for optimal effects.