GHK

What is GHK?

GHK is a tripeptide with the amino acid sequence glycyl-histidyl-lysine. It naturally occurs in human plasma, saliva, and urine. In plasma the level of GHK is about 200 ng/mL at age 20, but declines to 80 ng/mL by age 60. This decline in the GHK-level coincides with the noticeable decrease in regenerative capacity of an organism. Scientific research has shown that Scientific research has revealed that GHK can assist in wound healing, infection control, hair growth, cancer, cognitive health, and facial cosmetic use.

What is the Difference Between GHK and GHK-Cu?

GHK with and without copper affects a large number of genes related to an organism's response to stress and injury (tissue remodeling, anti-oxidant, anti-inflammatory, anti-pain, anti-anxiety, blood vessel growth, nerve outgrowth, anti-cancer action). GHK sequence is included in the collagen molecule, and SPARC protein and GHK is naturally released after an injury due to protein breakdown.

Copper is a transitional metal that is vital for all eukaryotic organisms from microbes to humans. Since it can be converted from oxidized Cu(II) to reduced Cu(I) form, it functions as an essential cofactor in a multitude of biochemical reactions involving electron transfer.

A dozen enzymes use changes in copper oxidation states to catalyze important biochemical reactions, including cellular respiration, antioxidant defense, detoxification, blood clotting, and the connective tissue formation. Copper is required for iron metabolism, oxygenation, neurotransmission, emb ryonic development and many other essential biological processes.

Why would I want to use GHK?

- Repairs Tissue by TGF Superfamily
- Suppresses Insulin and Insulin-Like Genes
- Activates DNA Repair Genes
- Acts as a Antioxidant Defense
- Suppresses Fibrinogen Synthesis
- Activates the Ubiquitin/Proteasome System (UPS)



Indications:

- Repairs tissues
- Antioxidant defense
- Helps repair genes

What you need to know:

According to the research, GHK is a potential treatment for a variety of disease conditions associated with aging. The molecule is very safe and no issues have ever arisen during its use as a skin cosmetic or in human wound healing studies.