



## ZN THYMULIN / GHK-CU

**GHK-Cu**, the human copper-binding Collagen and Aesthetic peptide, is a small naturally occurring tri-peptide copper ion binding complex that has a high affinity for copper ions, which evidence suggests are critical to normal body function. GHK-Cu is present in human plasma, liver lining, stomach lining, saliva, and urine and can also be released from tissues (lung connective tissue, boney tissue, etc.) in case of an injury. GHK-Cu has multiple biological actions and has established itself as a powerful protective and regenerative ingredient.

GHK-Cu improves skin and hair regeneration by stimulating and promoting blood vessel/nerve outgrowth and increasing hair growth/thickness and enlarging hair follicle size respectively.

**Zinc-Thymulin** is a combination of zinc and a nonapeptide called Thymulin that is used for hair loss. Zinc is an essential element and serum zinc deficiency can cause hair loss. Thymulin's activity on the hair follicle was recently published in an in vitro study where several thymic peptides showed Thymulin could extend the anagen (growing) phase of the hair follicle. Serum Thymulin concentrations are critically dependent on the presence of Zinc.

The combination of Zinc-Thymulin and GHK-Cu works synergistically for hair growth and restoration.

