

Active Peptide

https://www.activepeptide.com/

PRODUCT/SERVICE BACKGROUND INFORMATION

Founded in 2014, Active Peptide manufactures high-purity cosmetic peptides. Its first product was the copper peptide GHK-Cu, an ingredient first identified in the 1973 and known for reducing fine lines, boosting collagen and elastin, and restoring skin elasticity. Active Peptide developed a patented liquid-phase synthesis process that avoids chromatographic purification, enabling kilogram-scale batches. A patented crystallization method yields a crystal-form copper peptide that resists moisture and is easier to store and weigh. Made under GMP (ISO 9001) standards, its portfolio now includes GHK-Cu, AHK-Cu, and other peptides for anti-aging, skin repair and hair growth.

WHAT IS THE COMPANY INTRODUCING TO THE MARKET/INDUSTRY?

700 max characters (including spaces).

Multifunctional Peptide Science is a structure–function approach to cosmetic peptide design that explores three molecular architectures: copper-coordinated peptides, which may influence peptide availability through metal coordination and ligand exchange; cyclic peptides, designed to investigate enzymatic stability, skin penetration, and molecular target interactions; and dendritic peptide architectures, developed using three-dimensional molecular modeling to explore branching, spatial organization, multivalent interactions, and multifunctional biological activity.

HOW WILL THIS NEW PRODUCT/SERVICE IMPACT THE INDUSTRY (BENEFITS)?

700 max characters (including spaces).

This research framework advances the understanding of how molecular architecture influences cosmetic peptide performance. Copper coordination, peptide cyclization, and dendritic branching offer distinct strategies for investigating molecular stability, skin bioavailability, and biological interactions. Integrating three-dimensional molecular modeling with structure–function analysis may guide the rational design of multifunctional peptides targeting multiple skin-related pathways, supporting the development of next-generation cosmetic ingredients.