

SCH PEPTCARE™: MECHANISMS OF ACTION

Special Chemicals introduces its innovative line of biomimetic free peptides for cosmetics, designed to boost the effectiveness of cosmetic products. These peptides offer a wide range of functions, such as reducing wrinkles, stimulating collagen production, cell regeneration, and improving skin firmness and elasticity, among many others. Each peptide in our catalog has been developed to provide specific benefits and enhance cosmetic formulations, providing advanced solutions for skin care and rejuvenation.

SCH PeptCare™ - Biomimetic peptides

SCH PeptCare™ AcH8	Relaxation of facial muscles. It inhibits the release of neurotransmitters by blocking the attachment of the synaptic vesicle to the membrane, thereby reducing wrinkles caused by muscle contraction. Neuropeptide.
SCH PeptCare™ AcDD10	Scalp cell repair. It boosts the generation of new dermal cells strengthening hair follicles, strengthens the hair shaft and stimulates follicles to produce stronger and healthier hair.
SCH PeptCare™ AcH1	Melanocyte activation. It stimulates melanin production by activating melanocortin receptors, promoting the skin's natural pigmentation.
SCH PeptCare™ AcH3	Like acetyl hexapeptide-8, it inhibits the release of neurotransmitters, helping to reduce wrinkles and fine lines.
SCH PeptCare™ AcH39	Regulation of skin fat. It lessens the thickness of the dermo-hypodermal junction line, cellulite, and abnormalities in skin appearance.
SCH PeptCare™ AcO3	Reduction of muscle contraction. Like acetyl hexapeptide-8, it inhibits the release of neurotransmitters, relaxing facial muscles and reducing wrinkles.
SCH PeptCare™ AcTT15	Reduced sensitivity. It blocks pain receptors in the skin, helping to reduce the feeling of irritation.
SCH PeptCare™ AcTT5	Anti-edema. It improves the elasticity and firmness of the skin, reducing bags and dark circles by reducing fluid retention.
SCH PeptCare™ CuT1	Repair and rejuvenation. It stimulates the synthesis of collagen, elastin and glycosaminoglycans, promoting tissue healing and repair.
SCH PeptCare™ DD4	Promotes cell regeneration. It stimulates fibroblast proliferation and collagen synthesis, aiding in skin repair and healing.
SCH PeptCare™ D6	Brings a youthful look. It has a promotion effect on collagen production. Can enhance blood circulation and prevent broken blood vessels to show on the skin.
SCH PeptCare™ DDBD	Botox-like effect. Mimicking the paralyzing effect of snake venom, it inhibits muscle contractions, reducing the formation of wrinkles.

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SCH PeptCare™ H11	Physiological balance. It inhibits matrix metalloproteinases (MMPs) activity that degrades collagen. Increases tissue inhibitors of MMPs (TIMPs).
SCH PeptCare™ H2	Reduction of hyperpigmentation. It inhibits the transfer of melanin to skin cells, helping to reduce dark spots and even skin tone.
SCH PeptCare™ H9	Healing and repair. Promotes collagen synthesis and tissue repair, aiding in wound healing and skin regeneration.
SCH PeptCare™ MiH16	Eyelash growth. It is an eyelash booster peptide that stimulates multiple genes responsible for keratin (hair protein) production.
SCH PeptCare™ MiH17	Stimulation of hair growth. It is a bioavailable oligopeptide with eyelash-enhancing action. In addition, it has anti-aging, anti-inflammatory, and anti-bacterial properties.
SCH PeptCare™ N1	Inhibition of melanogenesis. It reduces melanin production by inhibiting the action of tyrosinase, helping to lighten and unify skin tone.
SCH PeptCare™ O11	Improved elasticity. It acts as an inhibitor of the MMP enzyme, responsible for hyaluronic acid degradation and it improves skin's water retention ability and elasticity.
SCH PeptCare™ OID15	Cell regeneration. It stimulates cell regeneration and it inhibits MMP-12, a metalloproteinase enzyme responsible for elastin destruction and aging-related fragmentation of the elastic fibers.
SCH PeptCare™ OO1	Stimulation of cell growth. It is a synthetic analog of human polypeptide EGF containing 53 amino acids. It promotes skin repair processes, increasing the rate of self-regeneration.
SCH PeptCare™ OO24	Skin renewal. It is a synthetic biomimetic peptide that stimulates skin cell proliferation by up-regulation of EGF expression. It mimics a key component in regulating the renewal of all skin structures.
SCH PeptCare™ OO51	Reduction of hyperpigmentation and fat. It is a multifunctional peptide for skin bioregulation. It regulates two areas of skin rejuvenation and health at once: melanin formation and fat metabolism.
SCH PeptCare™ P18	Reduces wrinkle. It reduces the depth of wrinkles on the face caused by the contraction of muscles of facial expression, especially in the forehead and around the eyes.
SCH PeptCare™ P3	Natural paralytic agent. It acts as an acetylcholine (ACh) competitive antagonist, blocking the membrane's receptors.
SCH PeptCare™ PaD2	Antiglycation peptide. It is a small amphiphilic peptide that protects the skin's connective tissue from glycation and prevents elastosis associated with fibrillin-1 degradation.
SCH PeptCare™ PaP4	Collagen stimulation. Promotes the synthesis of collagen and glycosaminoglycans, helping to reduce wrinkles and improve skin texture.
SCH PeptCare™ PaT1	Collagen booster. It stimulates fibroblasts and enhances the production of collagen and GAGs, smoothing fine lines and

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	deep wrinkles and improving the water-binding ability and elasticity of the skin.
SCH PeptCare™ PaT36	Hyaluronic acid alternative. It fights against signs of dermal aging (including fine lines and deep wrinkles), improves the skin condition, and minimizes skin imperfections, exposing a youthful, healthy, and radiant appearance.
SCH PeptCare™ PaT5	Collagen stimulation. It increases the synthesis of collagen and other proteins of the extracellular matrix, improving firmness and reducing wrinkles.
SCH PeptCare™ PaTT7	Youth hormone molecule. Designed to mimic DHEA activity and restore cytokine balance to mature skin. DHEA decreases with aging, causing an increase in interleukin-6. The peptide helps skin look younger by correcting this imbalance
SCH PeptCare™ T1	Stimulation of skin regeneration. It is a fragment of collagen type I and mimics the growth factor responsible for boosting the production of collagen, hyaluronic acid, and other GAGs.
SCH PeptCare™ T10Ci	Fibrillin regulation. It mimics decorin, improving collagen structures and restoring the skin's suppleness and resiliency. Thanks to decorin-like action, it regulates the fibrillogenesis process and collagen fibril dimensions.
SCH PeptCare™ T2	Wrinkle reduction. It inhibits the synthesis of premature aging proteins, protecting the collagen and elastic fibers of the skin, and delaying the aging process of the skin. It reduces the formation of wrinkles, improves skin elasticity, and makes the skin look younger and healthier.
SCH PeptCare™ T3	Anticellulite peptide. It can not only repair the skin and smoothen skin, but also activate lipodieresis to improve fundamental metabolism. It also has a good water retention ability to make the skin moist, shining healthy luster.
SCH PeptCare™ T32	Regulation of night repair. It triggers a cascade of different enzymes production responsible for damaged DNA repair, improving cell viability and longevity, and providing defense against environmental damaging factors.
SCH PeptCare™ AcTT3	Stimulation of hair growth. Designed to fight the symptoms of hair loss and stimulate hair growth. Stimulates the synthesis of follicle extracellular matrix proteins and helps the renewal of dermal papilla cells and opposes the stiffening of the sheath of the hair follicle that causes hair loss.
SCH PeptCare™ DD18	Stimulation of hair growth. It stimulates the formation of a new hair follicle. It contains a part of the sequence of beta-catenin (β -catenin) protein, that triggers a signal to a key mechanism for the transformation of epithelial follicle stem cells into hair keratinocytes.
SCH PeptCare™ OO20	Stimulation of cell growth. Mimics somatomedin (a growth factor) involved in normal skin growth, healing, and wound repair. It increases cell proliferation of skin keratinocytes and fibroblasts activating and accelerating the restoration of damaged skin, boosting collagen and elastin production.

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SCH PeptCare™ PaTT3

Fragment of immunoglobulin G. Analog to Palmitoyl tetrapeptide-7. Helps skin look younger by correcting the DHEA imbalance.

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