

Omega-CHS-Activator

Description

Omega-CHS-Activator contains a mixture of amino acids, free radical scavengers and peptides, entirely of plant or synthetic origin. A specific tripeptide resembles a peptide sequence of collagen and is responsible for the superoxide dismutase activity. Omega-CHS-Activator increases the cell metabolism and as a potent antioxidant it protects the skin from radicals. It is not only regenerating and protecting the skin, but it is also increasing hydration and is taking care about the water balance of the skin. "C" thereby stands for all the amino acids present in approximately the same concentration like in collagen. "H" stands for the hydration efficacy and "S" for scavenging properties. "Activator" is obviously coming from its marked efficacy in increasing the metabolic activity in the cells.

Omega-CHS-Activator is a water soluble radical scavenger to protect the skin from environmental impact. It is containing several radical scavengers and quenchers, whereby the copper tripeptide, mimics the superoxide dismutase activity. Copper tripeptide is a multifunctional component, which is naturally present in the body (signal and carrier peptide) and is responsible for stimulation of collagen synthesis, anti-inflammatory actions, accelerated wound healing and tissue repair. The skin remodeling properties of copper tripeptide can even lead to scar and stretch mark removal. Omega-CHS-Activator has a decent efficacy as moisturizer. In addition it activates the metabolism of cells, e.g. the respiratory oxygen consumption in the cell's mitochondria and consequently increases the production of intracellular adenosine triphosphate (ATP) which constitutes the biochemical energy or "fuel" for a large number of vital cell functions, such as cell division, synthesis of proteins and cell locomotion. Omega-CHS-Activator is suitable for use in high quality cosmetic products like facial creams, facial masks, ampoules, body lotions, after-sun lotions, after shave products and especially for anti-aging products.

Efficacy

- acts as a moisturizer
- enhances cell viability and cell oxygen consumption
- accelerates wound healing and cell proliferation
- acts as an antioxidant
- reduces wrinkles and fine lines
- minimizes scar tissue
- enhances skin thickness
- reduces environmental skin damages
- enhances hair growth
- remodels the skin
- enhances collagen expression

Appearance

slightly yellow to amber solution

INCI

Aqua, Panthenol, Glycine, Glycerin, PEG-400, Mannitol, Tromethamine, Glutamic Acid, Arginine HCl, Alanine, Aspartic Acid, Lysine Hydrochloride, Leucine, Valine, Citric Acid, Isopropyl Alcohol, Sodium Lactate, Sorbitol, Glucose, Phenylalanine, Isoleucine, Tyrosine, Histidine Hydrochloride, Hydrolyzed Soy Protein, Bis(Tripeptide-1) Copper Acetate

**Nature needs no cosmetics,
but cosmetics need nature**



Omega-CHS-Activator

Registration

	CAS-No.	EC-No.
Aqua	7732-18-5	231-791-2
Panthenol	81-13-0	201-327-3
Glycine	56-40-6	200-272-2
Glycerin	56-81-5	200-289-5
PEG-400	25322-68-3	open
Mannitol	69-65-8	200-711-8
Tromethamine	77-86-1	201-064-4
Glutamic Acid	56-86-0	200-293-7
Arginine HCl	1119-34-2	214-275-1
Alanine	56-41-7	200-273-8
Aspartic Acid	56-84-8	200-291-6
Lysine Hydrochloride	657-27-2	211-519-9
Leucine	61-90-5	200-522-0
Valine	72-18-4	200-773-6
Citric Acid	5949-29-1	200-069-1
Isopropyl Alcohol	67-63-0	200-661-7
Sodium Lactate	867-56-1	212-762-3
Sorbitol	50-70-4	200-061-5
Glucose	50-99-7	200-075-1
Phenylalanine	63-91-2	200-568-1
Isoleucine	73-32-5	200-798-2
Tyrosine	60-18-4	200-460-4
Histidine Hydrochloride	645-35-2	211-438-9
Hydrolyzed Soy Protein	68607-88-5	271-770-5
Bis(Tripeptide-1) Copper Acetate	130120-57-9	open

Preservatives / Stabilizers

preservatives:

Nipaginester.....0.1 %

Rokonsal MEP.....0.22 %

(Phenoxyethanol, Methylparaben, Ethylparaben, Propylparaben)

stabilizers:

Citric Acid.....0.2 - 1.0 %

Sodium Lactate.....0.2 - 1.0 %

Sorbitol.....0.2 - 1.0 %

Isopropyl Alcohol.....0.2 - 1.0 %

Characteristics

water content.....57 - 63 %

density at 20°C.....1.08 - 1.15 g/ml

pH-value.....6.0 - 7.0

total nitrogen.....2.2 - 2.5 %

amino acids.....8.5 %

Application

daily cosmetic products

creams and lotions

face masks

gels and ampoules

body care

after sun care

after shave

Application concentration

skin care formulation.....0.8 - 5 %

Incorporation

Omega-CHS-Activator should be blended into the water phase at max. 50°C. Omega-CHS-Activator is soluble in water.

Toxicology

non hazardous in normal use concentration

Storage & Shelf life

Omega-CHS-Activator should be stored in a light protected place at 10 - 25°C.

In closed original containers the shelf life is five years.