Myristoyl hexapeptide-23

INCI name:	**Myristoyl hexapeptide-23**
Peptide Sequence:	-
Molecular Formula:	$C_{47}H_{92}N_{10}O_7$
Molecular weight:	909.30
Cas No.	-
Application:	Cosmetics – anti acne / other skin
Packaging:	bottle
Filling quantity:	1 g / bottle 5 g / bottle 10 g / bottle 100 g / bottle special packaging upon request
Storage and Shelf life:	2 - 8 °C, dark and clean shelf life 24 months.

ExperChem Limited
Birkenauer Talstr. 9
69469 Weinheim
Germany

Contact: Dr. Henry Haeusler
henry.haeusler@experchem.com
☎ +49 6201 39 29 50
+49 6201 18 70 43

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Product Spezification

Myristoyl hexapeptide-23

Manufacturing date: 23.06.2017 Expiry date: 22.06.2019

Test	Specification	Batch No. 20170623
Appearance	white powder	conforms
Identity	909.3 ± 1	909.6
Solubility	soluble in water	conforms
Amino acid composition	± 10 % of theoretical	conforms
Peptide purity (by HPLC)	≥ 95.0 % by area integration	99.49 %
Water content (Karl Fischer)	≤ 8.0 %	4.18 %
Acetate content	≤ 15.0 %	14.65 %

Characteristics

Propionibacterium acne bacteria live deep within follicles and pores, away from the surface of the skin. In these follicles, Propionibacterium acnes bacteria use sebum, cellular debris and metabolic byproducts from the surrounding skin tissue as their primary sources of energy and nutrients. Elevated production of sebum by hyperactive sebaceous glands (sebaceous hyperplasia) or blockage of the follicle can cause Propionibacterium acnes bacteria to grow and multiply.

Propionibacterium acnes bacteria secrete many proteins, including several digestive enzymes. These enzymes are involved in the digestion of sebum and the acquisition of other nutrients. They can also destabilize the layers of cells that form the walls of the follicle. The cellular damage, metabolic byproducts and bacterial debris produced by the rapid growth of Propionibacterium acnes in follicles can trigger inflammation. This inflammation can lead to the symptoms associated with some common skin disorders, such as folliculitis and acne vulgaris.

Use level: minimum inhibitory concentration is 0.001 %

Cosmetic benefits

Myristoyl hexapeptide-23 that helps prevention of problem skin.

Myristoyl hexapeptide-23 kills acne-causing bacteria.