



Octapeptide-2

INCI name:	Octapeptide-2
Peptide Sequence:	Glu-Gln-Leu-Lys-Thr
Molecular Formula:	$C_{44}H_{81}N_{12}O_{15}$
Molecular weight:	1017.2
Cas No.	1374396-34-5
Synonym:	CG-proharin β 4
Application:	Cosmetics - hair
Packaging:	bottle
Filling quantity:	1 g / bottle 5 g / bottle 10 g / bottle special packaging upon request
Storage and Shelf life:	2 - 8 °C cool, dark and clean shelf life 24 months

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Product Specification

Octapeptide-2

Manufacturing date: 02.03.2020

Expiry date: 01.03.2022

Test	Specification	Batch 2003OTP2
Appearance	white powder	conforms
Identity (by HPLC)	the retention is same with the reference substance	conforms
Identity by MS	1017.2 ± 1	889.00
Solubility	soluble in water	conforms
Peptide purity (by HPLC)	≥ 95.0 % by area integration	97.46 %
Water content (Karl Fischer)	≤ 8.0 %	2.96 %
TFA content	< 20 %	13.58 %

Characteristics

Octapeptide-2 is derived from human thymosin β-4 (Tβ4). It has similar functions to human Tβ4 and its biological activity. In addition, Octapeptide-2 is much higher stability and skin permeation than natural-occurring Tβ4. Octapeptide-2 is advantageously applied to cosmetics for promoting hair growth.

Use level: 0.0025 – 0.005 % (maximum dosage: 0.05 %)

Cosmetic benefits

Increase cell growth and migration

Promote hair growth by activating the stem cells of hair follicle.

More stable and prolong action than native proteins.