

Nonapeptide-1

Base information

INCI	Nonapeptide-1
Peptide Sequence:	Met-Pro-D-Phe-Arg-D-Trp-Phe-Lys-Pro-Val
Molecular Formula:	C ₆₁ H ₈₇ N ₁₅ O _{9S}
Molecular weight:	1206.52
Cas No.:	158563-45-2
Synonym:	Melanostatine
Application:	cosmetics
Packaging:	bottle
Filling quantity:	1 g / bottle 5 g / bottle 10 g / bottle 100 g / bottle special packaging upon request
Storage and shelf life:	cool, dark and clean place -20°C shelf life 24 months 2 - 8 °C shelf life 12 months



Nonapeptide-1

Specification

Test	Specification
Appearance	white or off-white powder
Identity by HPLC	the retention is same with the reference substance
Identity by MS	1206.52±1
Solubility	soluble in water(≥0.1g/ml)
Peptide purity (by HPLC)	≥ 98.0 %
Water content (Karl Fischer)	≤ 8 %
Acetic acid content	≤ 15 %

Characteristics

- blocks the binding of α -MSH with its receptor MC1R on the cell membrane of melanocyte. The successive melanine producing process is stopped.
- a whitening agent that works on the very initial stage of skin darkening mechanism. Highly efficacious.
- prevents further activation of tyrosninase & thus blocks melanin synthesis for better control over skin tone & brown spots.
- prevents hyerproduction of melanin
- whitening activity proven on Asian skin

Cosmetic benefits

Nonapeptide-1 can be incorporated in

- skin radiance
- skin lightening-whitening
- anti-dark spot formulations

Use level: 0.01 - 0.1 %

And it should be incorporated at the final stage of the manufacturing, provided the temperature is below 45 °C.