



Designed Capsules

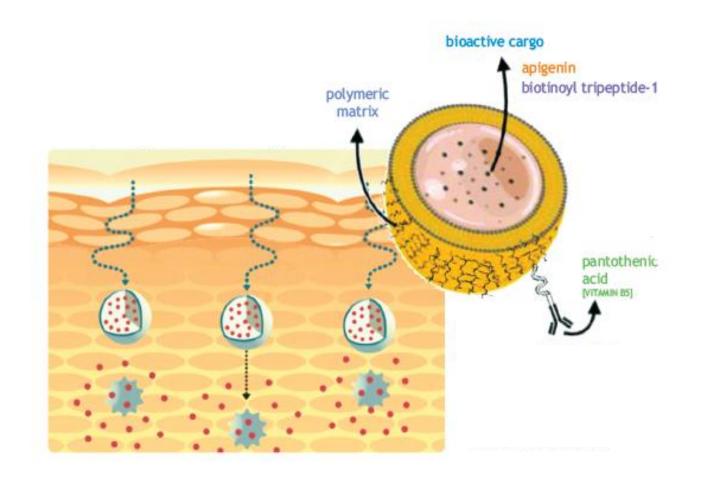
Polycaprolactone capsules assure:

- High bioavailability
- Deep skin delivery

COMPOSITION:

Biotinoyl tripeptide-1
Apigenin
Pantothenic acid

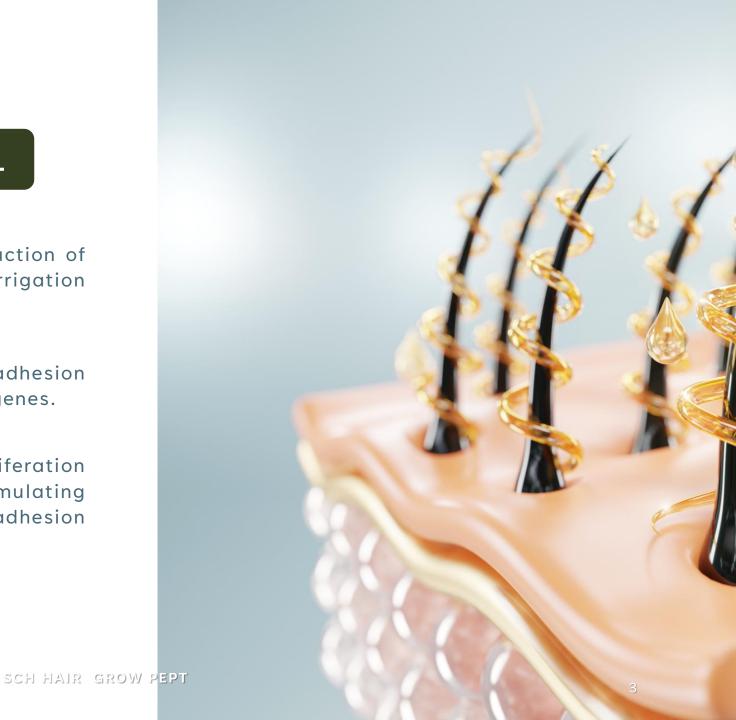






BIOTINOYL TRIPEPTIDE-1

- Slows aging effects by lessening the production of dihydrotestosterone (DHT) to improve the irrigation of the hair follicle.
- It increases hair growth and enhances adhesion molecules to stimulate hair strengthening genes.
- It promotes hair bulb keratinocyte proliferation and ensures optimal hair anchorage by stimulating the synthesis and organisation of the adhesion molecules laminin 5 and collagen IV.







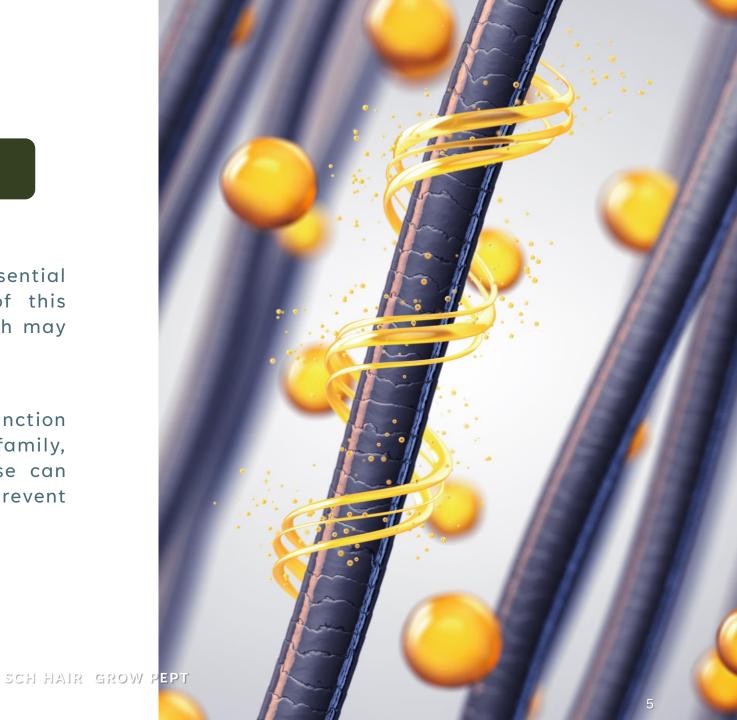
APIGENIN

- Apigenin is a bioflavonoid found in many fruits and vegetables, such as parsley, onions, oranges and chamomile. This flavonoid acts as an antioxidant.
- Multiple clinical studies suggest that apigenin, known to possess antioxidant, anti-inflammatory, and anti-tumor properties, can stimulate hair growth.
- Androgen-inducible transforming growth factor β, found in dermal papilla cells, gives the signal for hair follicles to terminate the anagen growth phase and move into the catagen transitional phase.
- Human epidermal keratinocytes treated with apigenin showed decreased levels of TGF-β1 expression, thus increased proliferation of both the papilla cells and the keratinocytes.



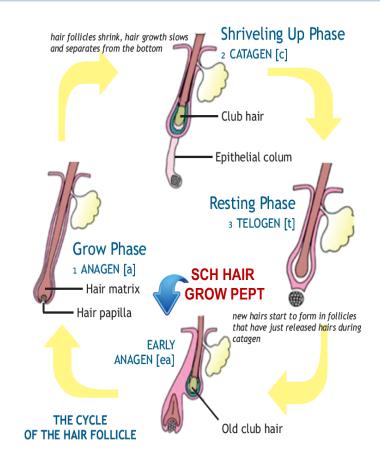
PANTOTHENIC ACID

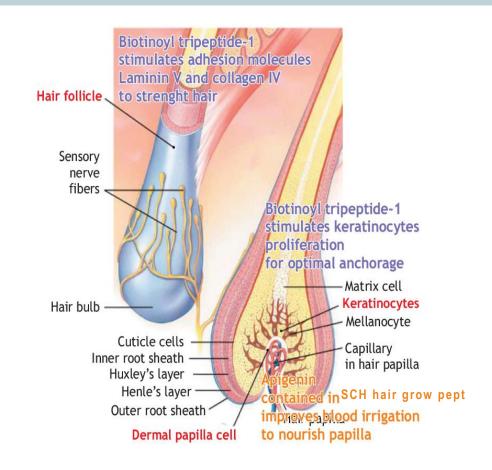
- Pantothenic acid, or vitamin B5, is an essential part of a healthy diet. A deficiency of this vitamin can harm your hair follicles, which may weaken them and lead to hair loss.
- Pantothenic acid is often taken in conjunction with the other members of the B vitamin family, and maintaining adequate levels of these can improve the health of your hair and help prevent it from thinning.





SCH HAIR GROW PEPT MECHANISM OF ACTION







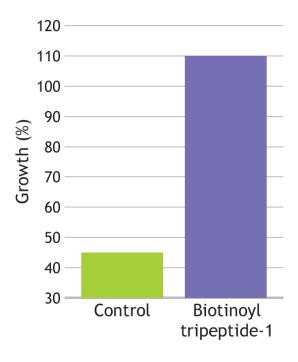
CHANGES IN HAIR SHAFT LENGTHS OVER TIME

To assess the role of SCH HAIR GROW PEPT on anagen hair follicles, lower anagen hair follicles micro-dissected from healthy human scalps were cultured with SCH HAIR GROW PEPT for 9 days.



SCH HAIR GROW PEPT SIGNIFICANTLY INCREASED HAIR ELONGATION RELATIVE TO UNTREATED CONTROL FOLLICLES





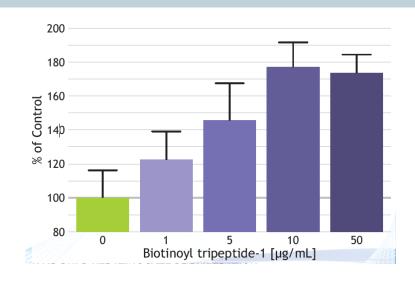
Hair shaft growth measured after 9 days application of 5ppm of Biotinoyl tripeptide-1, in vitro assay





BIOTINOYL TRIPEPTIDE-1 STIMULATES KETATINOCYTE PROLIFERATION

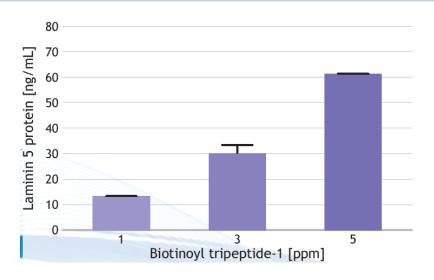
BIOTINOYL TRIPEPTIDE-1 STIMULATES LAMININ 5 EXPRESSION IN HUMAN KERATINOCYTES



HAIR BULB KERATINOCYTE PROLIFERATION ENSURES OPTIMAL HAIR ANCHORAGE

Biotinoyl tripeptide-1 induced keratinocyte proliferation rate.

Various concentrations of peptide were applied to HaCaT cells
cultured for 24 hours in serum-free medium and checked the cell
proliferation rate using MTT



SCH HAIR GROW PEPT BY STIMULATING LAMININ 5 HELPS TO STRENGHT HAIR

Human keratinocytes were cultured for 24 hours in a mixture of Dulbecco's modified Eagle's medium with SCH HAIR GROW PEPT.

Laminin 5 protein secreted into the medium

was measured by means of an ELISA kit.

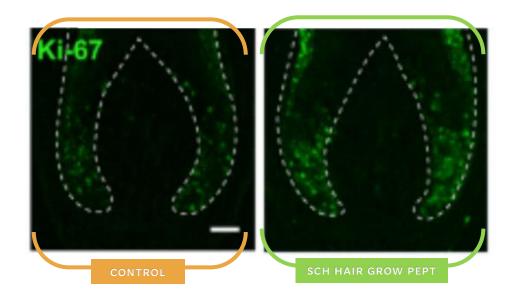






Immunofluorescence staining for fibroblasts using Ki-67 antibody [GREEN] performed after incubation of hair follicles with 1 μ M SCH HAIR GROW PEPT for 3 days

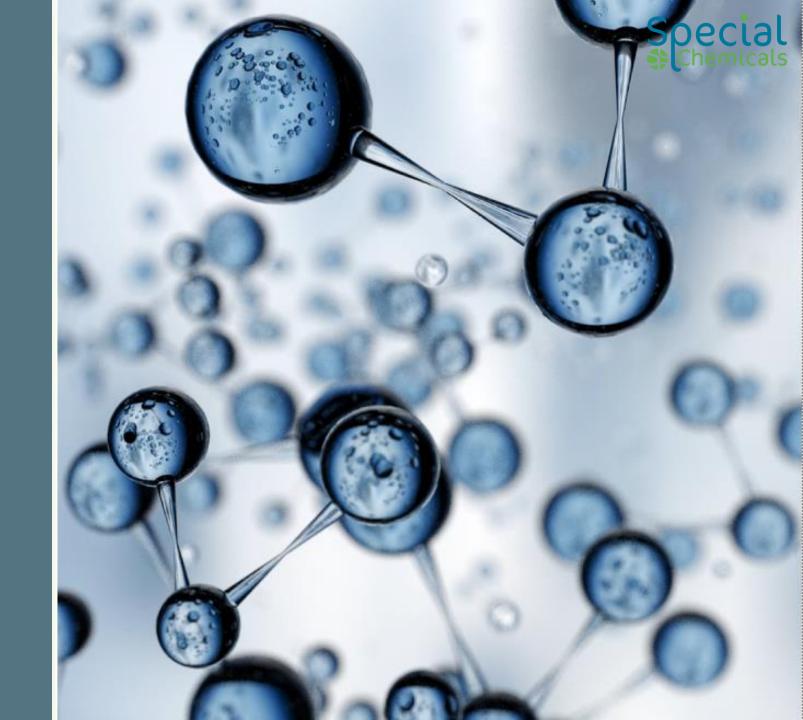
In vivo study on 20 panellist after 5ppm twice daily 5% SCH HAIR GROW PEPT solution





SPECIFICATIONS

- Apperance: Aqueous Solution
- INCl.: Water, polycaprolactone, biotinoyl tripeptide-1, apigenin, pantothenic acid, polyvinyl alcohol, sorbitan stearate
- Additives: xanthan gum, phenoxyethanol
- Recommended dose: 3-5%
- Legal status: EU|US|CN|JP|KR|AUS



THANK YOU



Thank you for your interesting and attention! If you need sample and technical data, please contact us without hesitation

