

SCH HAIR REACT

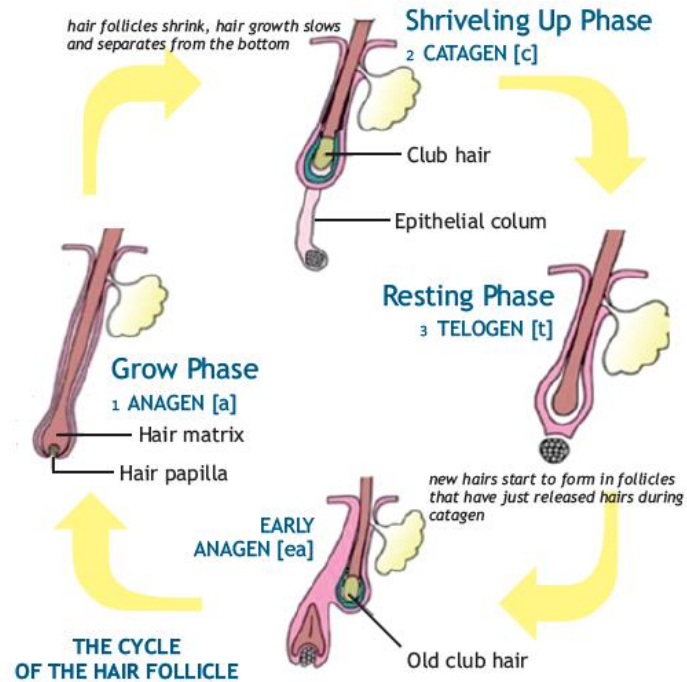
NEXT GENERATION PEPTIDES

Developments of new cutting-edge peptide-based drugs and molecules with pharmacological, diagnostic and cosmetic interest.

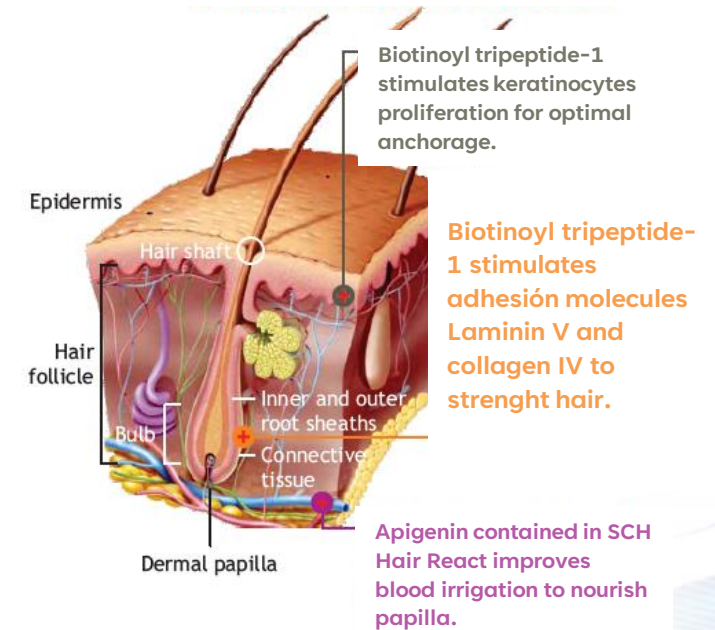
SCH HAIR REACT

The ideal combination of biotinoyl tripeptide-1 plus apigenin to help hair growth and strength.

- ❖ *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*
- ❖ *Promotes hair bulb keratinocyte proliferation and ensures optimal hair anchorage by stimulating the synthesis and organization of the adhesion molecules laminin 5 and collagen IV*

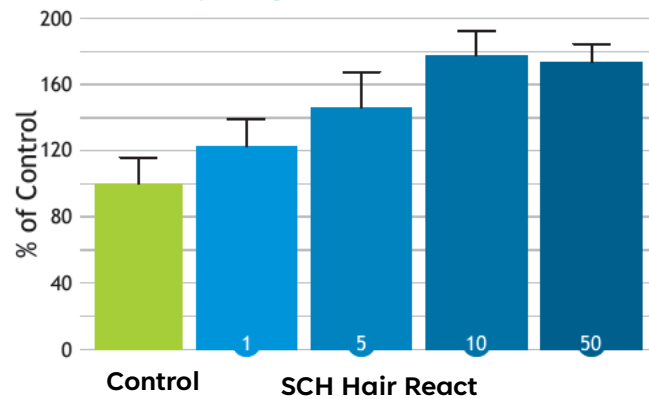


SCH Hair React Mechanism of Action.



SCH HAIR REACT

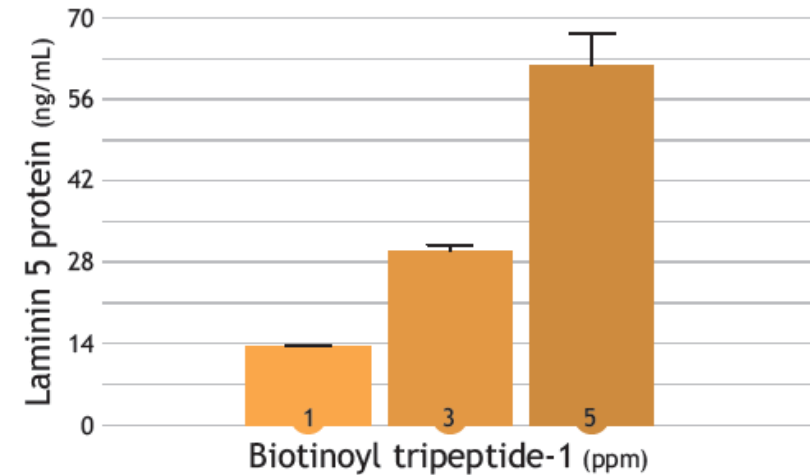
SCH HAIR REACT stimulates keratinocyte proliferation



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.

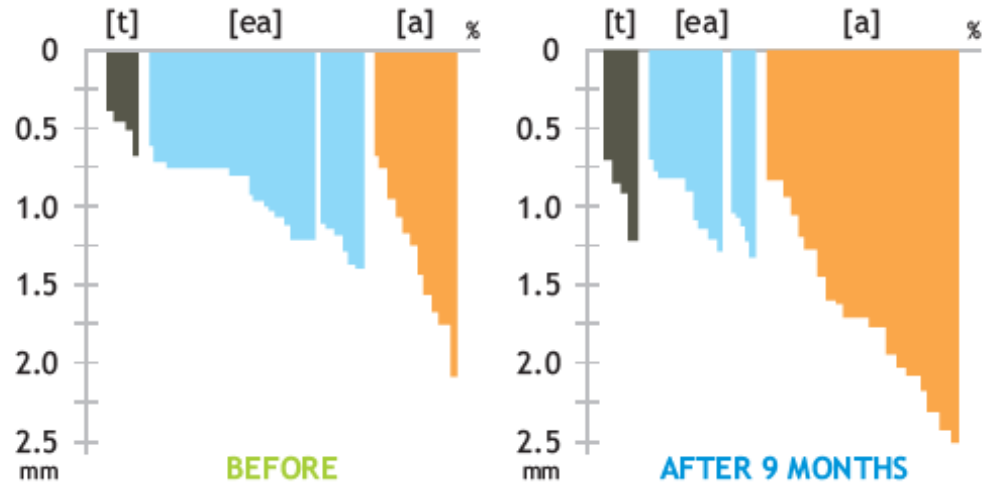
SCH HAIR REACT

SCH HAIR REACT stimulates Laminin 5
expression in keratinocytes

SCH HAIR REACT by stimulating Laminin 5 helps to strenght hair
Hkeratinocytes were cultured for 24 hours in a muman ixture of Dulbecco's modified Eagle's médium with Hairstim. Laminin 5 protein secreted into the medium was measured by means of an ELISA kit.

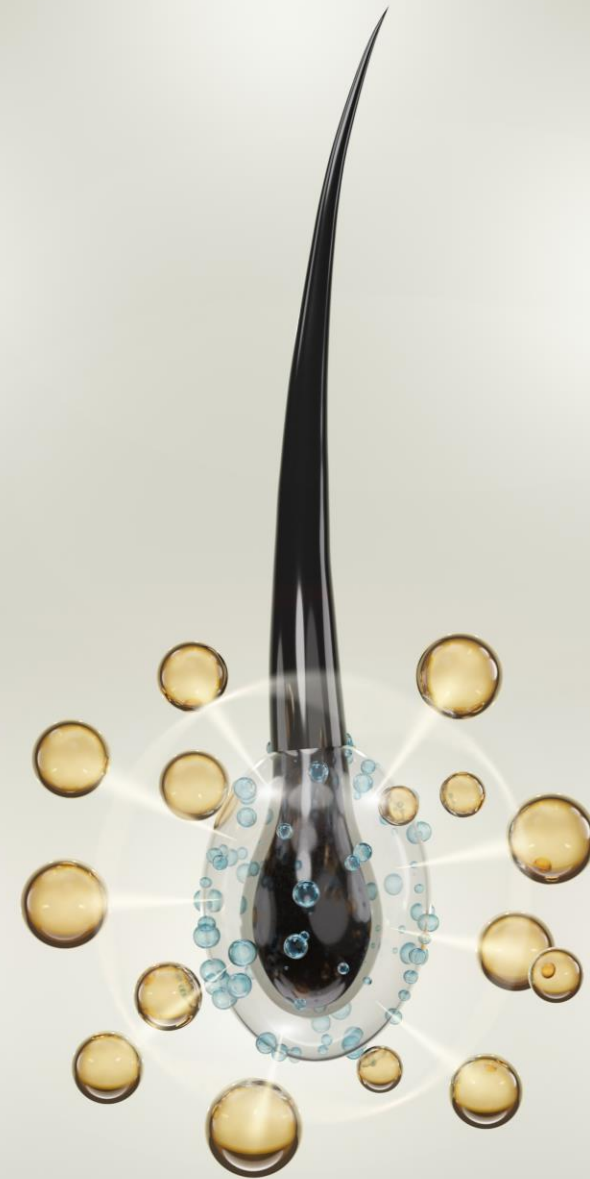
SCH HAIR REACT

Effect of SCH HAIR REACT treatment on both composition of phases of hair follicle in hair cycle and follicle length.



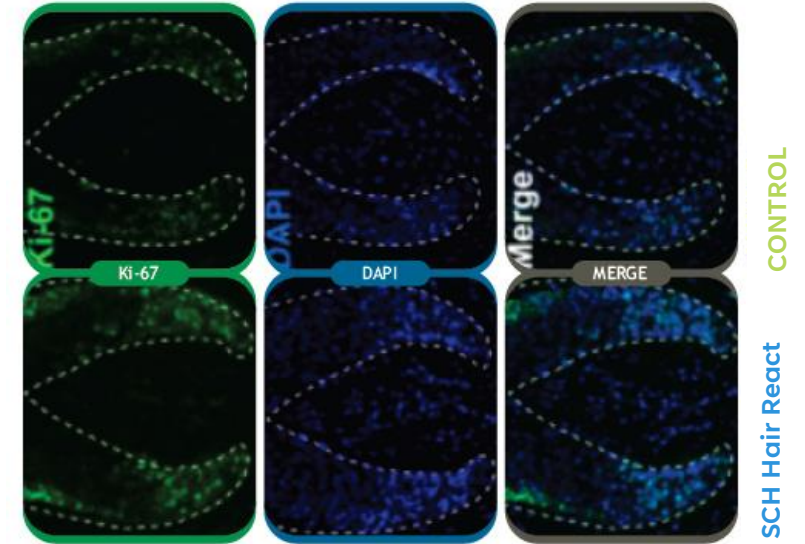
Treatment with 5ppm SCH HAIR REACT:

- Increases % of follicles in Anagen.
- Increases Follicle length.
- The abscissa shows composition(%) of phases of hair follicle in the hair cycle and the ordinate shows follicle length (mm).



SCH HAIR REACT

The hair growth-promoting mediator effect of SCH HAIR REACT



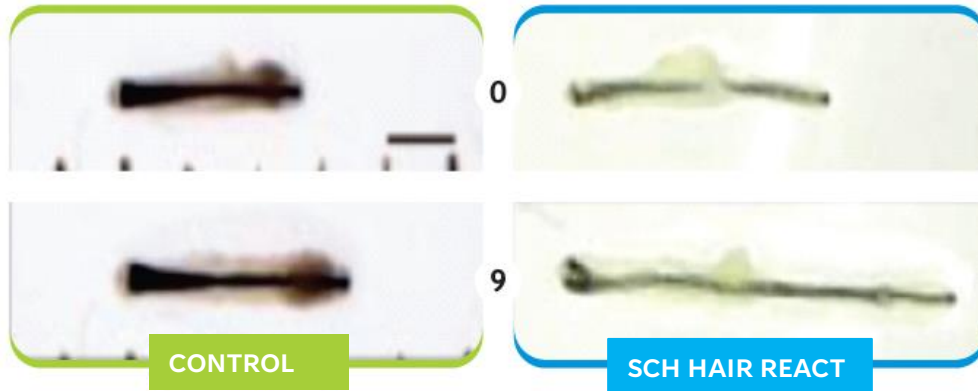
Immunofluorescence staining for Ki-67 [GREEN] was performed after incubation of hair follicles $1\mu\text{M}$ SCH Hair react for 3 days compared with untreated controls.

DAPI [BLUE] was used to counterstain the nuclei.

SCH HAIR REACT

SCH HAIR REACT treatment significantly increased hair elongation relative to untreated control follicles

Changes in hair shaft lengths over time



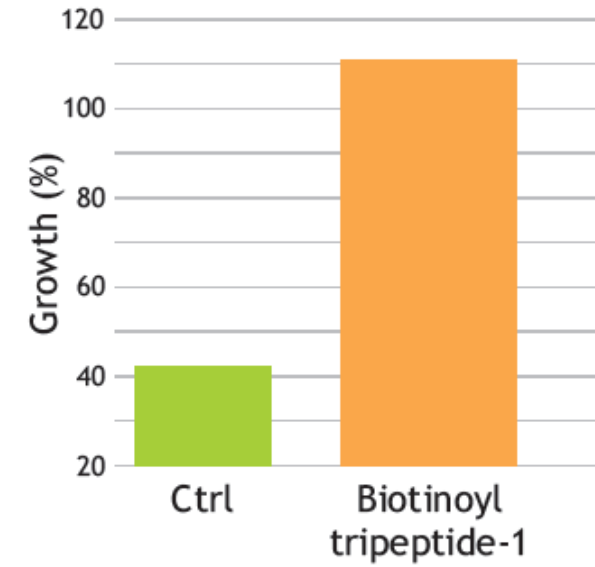
To assess the role of SCH hair react on anagen hair follicles, lower anagen hair follicles micro-dissected from healthy human scalps were cultured with 1 μ M SCH HAIR REACT for 9 days



SCH HAIR REACT



Hairshaft growth (quantitative data)



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

SCH HAIR REACT

Efficacy of SCH HAIR REACT, in vivo study

A treatment containing 5ppm SCH HAIR REACT was applied twice daily in 20 panelist



BEFORE



AFTER



BEFORE



AFTER

SPECIFICATIONS

- 🌿 Appearance: Powder form
- 🌿 INCI.: Dextran, Biotinoyl tripeptide-1, Apigenin
- 🌿 Solubility: Water soluble
- 🌿 Recommended dose: Recommended use level: 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*

Special
Chemicals