



Anti-aging peptide derived from living body

Product name	PROLIPHIL-F ₄
INCI name	Capryloyl Dipeptide-17
Korean name	카프릴로일다이펩타이드-17
CAS No.	1800416-47-0
EFFECTS	<ol style="list-style-type: none"> 1. Fibroblast proliferation 2. Collagen biosynthesis promotion 3. Prolidase enzyme activity promotion 4. Excellent skin permeation

Skin Permeation Peptide Derivative PROLIPHIL-F₄

PROLIPHIL-F₄ is a fragment of peptide constituting collagen protein and is peptide-fatty acid derivative promoting collagen biosynthesis by increasing the activity of Prolidase that is an enzyme which plays an important role in collagen synthesis. PROLIPHIL-F₄ effectively reaches the dermal layer of the skin because its excellent cell and skin tissue permeation so that it shows biological activity of the improvements of wrinkles and skin elasticity by promoting collagen biosynthesis in the aging skin that the balance of collagen synthesis is broken. The efficacy of the anti-wrinkle in PROLIPHIL-F₄ has been proven through clinical trials.

Evidence Report

⊙ *in vitro* tests

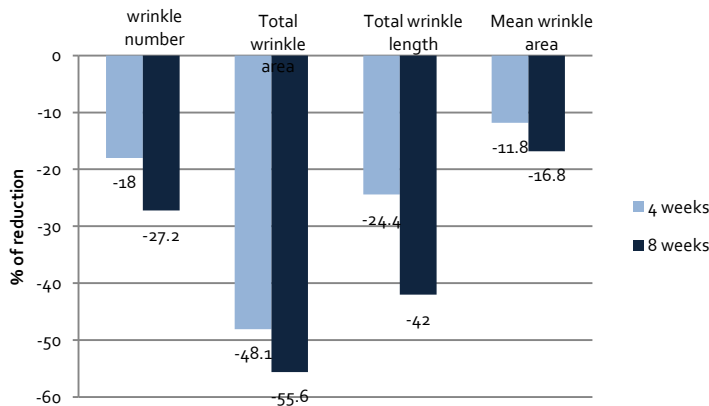
EFFICACY TEST 1: Anti-ageing (Dermal fibroblast proliferation)

EFFICACY TEST 2: Anti-ageing (Collagen biosynthesis)

EFFICACY TEST 3: Anti-ageing (Prolidase activation)

⊙ Clinical test

EFFICACY TEST 4: Clinical study (Anti-wrinkle)



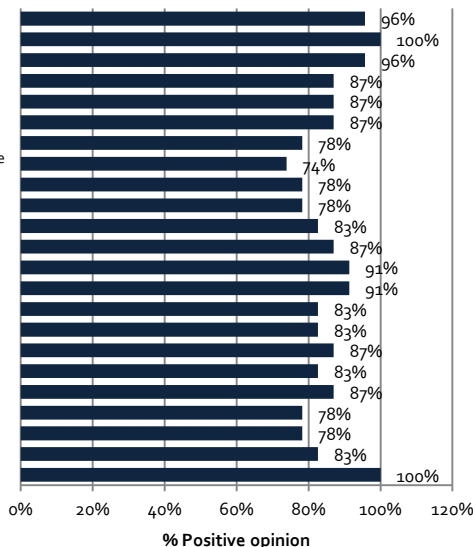
Anti-Aging Efficacy of PROLIPHIL-F₄ on Asian Skin Type

In a clinical study with 20 Asian healthy female volunteers (Bangkok), aged 44 to 61, 0.005 % formula containing PROLIPHIL-F₄ had been applied twice daily during 8 weeks on the face area. Evaluation was performed by replica analysis (evaluation of the anti-wrinkle effect) and digital photography.

PROLIPHIL-F₄ showed visible anti-wrinkle effect even after 4 weeks and very effective in reducing wrinkles *in vivo*.

EFFICACY TEST 4: Clinical study (Self-assessment)

- My skin is moisturized
- My skin is softer
- My skin is more supple
- My skin is smoother
- My skin restored its elasticity
- My skin is like lifted
- Wrinkles and fine lines on the face are less visible
- Wrinkles and fine lines on the crow's feet area are less visible
- Nasolabial fold is less visible
- Forehead wrinkles are less visible
- My skin is firm
- My skin seems younger and healthier
- My skin around the eye contour is smoother
- My skin is more even
- My facial pores are tightened
- My skin tone is more even
- My skin is brighter
- My eye circle (dark circle) is less visible
- My hyperpigmented spots are brighter
- My dark scars are faded/less visible
- Skin redness is less visible
- My skin is soothed and calm
- Overall, are you satisfied with the tested product?



Self assessment

Volunteers agree that PROLIPHIL-F₄ makes improvement the skin