



PROGELINETM

MODULATES PROGERIN, A MARKER OF SENESCENCE

Biomimetic peptide derived from Elafin

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Improves the appearance of wrinkles and sagging skin for a complete remodelling effect







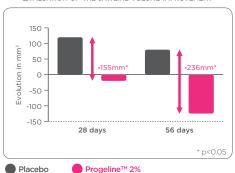
PROGELINE™, IS A 3 AMINO ACIDS PEPTIDE BIOMIMETIC OF ELAFIN THAT MODULATES PROGERIN, A NEW SENESCENCE MARKER, FOR A COMPLETE REMODELLING EFFECT AND REDUCTION OF THE APPEARANCE OF WRINKLES.

SC Epidermis DEJ Dermis Contraction Elastase MMPs Progerin Progeline™ effect

EFFECT OF PROGELINE™ ON PROGERIN PRODUCTION



EVALUATION OF THE JAWLINE VOLUME IMPROVEMENT



RETHINKING SKIN AGING BY MODULATING PROGERIN

The skin's appearance and vitality are of prime importance in daily life and for social well-being. With advances in scientific knowledge, we have come to see that it is no longer only about fighting the signs of aging, but also delaying the senescence process.

Senescence is the change that occurs in the biology of an organism as it ages after maturity. Cellular senescence is the phenomenon whereby normal cells lose the ability to divide but remain active, and display increased activity of metalloproteinases that degrade the extracellular matrix. Senescent cells are also linked to progerin, a toxic protein.

As cells age, the accumulation of progerin causes nuclear defects and increased DNA damage, and greatly contributes to the appearance of signs of aging.

ProgelineTM, is a 3 amino acids peptide biomimetic of Elafin, an enzyme inhibitor that regulates the integrity of the extracellular matrix. ProgelineTM decreases progerin synthesis, a new aging biomarker involved in skin cellular senescence. By acting directly on a senescence marker, ProgelineTM clinically improves the appearance of signs associated with skin maturation: sagging, slackness and wrinkles.

Reducing progerin production

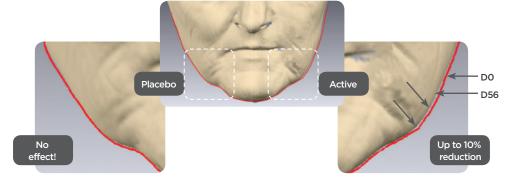
Mature human dermis fibroblasts were incubated for 96 hours. The progerin in cell lysates was quantified using the ELISA method.

Progeline[™] significantly decreases the production of progerin, attesting to its potential as an anti-aging ingredient!

LIFTING EFFECT ON JAWLINES

Test protocol

- 10 healthy volunteers (women, 54 to 64 years old).
- A cream containing 2% Progeline™ or placebo was applied on split-face and split-neck, 2x/day (morning and evening) for 56 days.



Progeline™ significantly decreases the volume of the jawlines after 28 and 56 days.

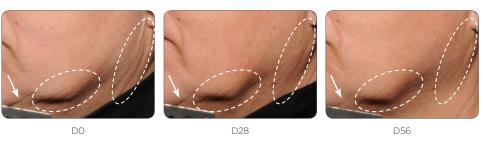
FIRMNESS AND ELASTICITY IMPROVEMENT

Test protocol

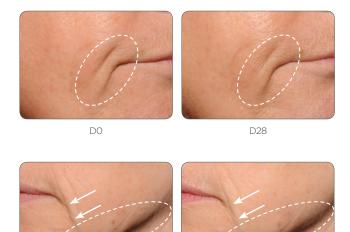
- 13 healthy volunteers (women, 54 to 66 years old) with sagging skin.
- A cream containing 2% Progeline™ or placebo was applied on split-face and split-neck, 2x/day (morning and evening) for 28 days.

Measurements taken using a cutometer yielded 3 parameters:

- **Firmness** = tightness, tonicity;
- **Elasticity** = capacity of the skin to stretch;
- Viscoelasticity = capacity of the skin to return to its original state.

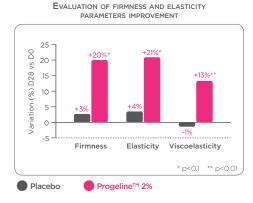


Progeline™ significantly increases skin firmness, elasticity and viscoelasticity, attesting its efficacy on skin slackness and sagging.



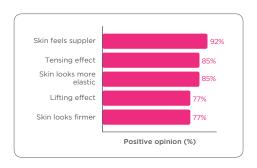
Progeline[™] clearly reduces the appearance of wrinkles and skin sagging over time.

Progeline[™] has an overall satisfaction score of 92%. Consumers agree that it helps the skin to look firmer, fuller and denser.



Improvement up to:

93% of cutaneous elasticity;82% of cutaneous firmness;42% of cutaneous viscoelasticity.



BY ACTING DIRECTLY ON A SENESCENCE MARKER, PROGELINE™ CLINICALLY IMPROVES THE APPEARANCE OF SAGGING SKIN AND WRINKLES.

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PRODUCT DESCRIPTION

INCI NAME

Glycerin (1) (and) Water (2) (and) Dextran (3) (and) Trifluoroacetyl Tripeptide-2 (4)

CAS

56-81-5 (1), 7732-18-5 (2), 9004-54-0 (3), 64577-63-5 (4)

EINECS

200-289-5 (1), 231-791-2 (2), 232-677-5 (3), - (4)

APPEARANCE

Aqueous limpid solution, odorless and colorless

FORMULATION

ProgelineTM should be incorporated at the end of the formulation at a temperature of $<40^{\circ}$ C.

DOSAGE

- Intensive treatment: 2%

- Body care: 1%

- Preventive care: 0.5 - 2%

OPTIMUM pH

4-6

APPLICATIONS

- Anti-aging
- Firming care
- Remodelling skin care
- Post pregnancy care
- Skin care for mature skin
- Men's care
- Body care
- Photoaging
- Alternative to cosmetic procedures

CHINA-COMPLIANT 🏴

FEATURES AND BENEFITS

| FEATURES | BENEFITS |
|------------------------------------|--|
| Unique mechanism of action | Modulates progerin, a new aging biomarker |
| Peptide | Stable, easy to work with, and precise targeted action |
| Rethinking the anti-aging approach | Targets a new senescence marker |
| High efficacy | Starting at 0.5% |
| Strong clinical results | Outstanding results on different areas of the face |

LA SPIRIT CREAM

| INGREDIENTS | | INCI NAME | % |
|-------------|---------------------|--|-------|
| Α | Deionised Water | Water | 77.10 |
| | Dermofeel™ PA-12 | Sodium Phytate | 0.10 |
| | Chlorphenesin | Chlorphenesin | 0.30 |
| | Phenoxyethanol | Phenoxyethanol | 0.80 |
| | Granlux® AOX-GL | Glycerin (and) Picea Abies Extract (and) Alcohol | 1.00 |
| | Biophilic™ H | Hydrogenated Lecithin (and) C12-16 Alcohols (and) Palmitic Acid | 4.00 |
| В | Dermorganics GMS-SE | Glyceryl Stearate SE | 1.00 |
| | Mirasil DM350 | Dimethicone | 4.00 |
| | Dekanex 2006 FG | Hydrogenated Polydecene | 3.00 |
| | Phytosqualan | Squalane | 2.00 |
| | Lecigel™ | Sodium Acrylates Copolymer (and) Lecithin | 1.50 |
| С | Adipofill'in™ | Water (and) Propanediol (and) Ornithine (and) Phospholipids (and) Glycolipids | 2.00 |
| | Progeline™ | Glycerin (and) Water (and) Dextran (and) Trifluoroacetyl Tripeptide-2 | 2.00 |
| | Exo-H TM | Butylene Glycol (and) Alteromonas Ferment Filtrate | 1.00 |
| D | Douceur 3246 | Fragrance | 0.20 |

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LUCAS MEYER COSMETICS S.A.S.

ZA les Belles Fontaines 99 route de Versailles 91160 Champlan - France T: +33 (0)1 69 10 69 69 - F: +33 (0)1 69 10 69 70 LUCAS MEYER COSMETICS CANADA INC.

