

Peptide for reinforcing epidermal functions

The epidermal barrier function can be altered under various environmental conditions or due to patient status. Active molecules able to favor skin regeneration process or endogenous synthesis of Natural Moisturizer Factor (NMF) can counterbalance such attacks.

DESCRIPTION*

- Peptidic sequences (5 to 15 aa) from LCE6A polypeptide (80 aa) that belongs to the « Late Cornified Envelope » (LCE) family
- Originality: Little sequence homology with the 5 other members of the LCE family
- Functionality: LCE6A gene highly expressed within the granular keratinocyte-enriched fraction
- Specificity: LCE6A gene expression only within epidermis compared to 17 other healthy body tissues and organs
- *In vitro* bonding evidence to transglutaminases 2 and 3

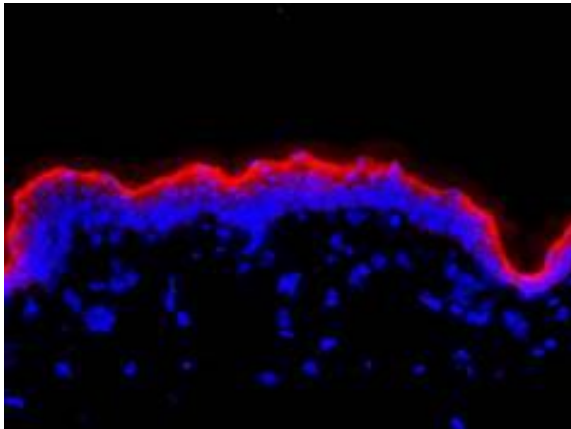


Photo: TTT-UDEAR.

Designed peptide are crosslinked to transglutaminases within the stratum corneum.

COMPETITIVE ADVANTAGES

- Originality of the sequence
- Tissue-specific expression demonstrating the mechanistic rational

APPLICATIONS

- Reinforcing epidermal barrier function
- Treating signs of skin dryness and ageing
- Preventing/treating cutaneous trophic disorders or suboptimal cicatrization
- Treating xerosis, ichthyosis, psoriasis, keratosis

INTELLECTUAL PROPERTY

- Patent in force

DEVELOPMENT STAGE

- Experimental proof of concept



LABORATORY

- Team « Epidermal barrier » (UDEAR – UMR 5165)



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