

## **Regeneration with**

the Elasticity Architect

### Effects

• Reduces the synthesis of elastase, increases the synthesis of elastin and elastin-related proteins, thus reducing the appearance of wrinkles and significantly preventing sagging.

• It has effective wound healing activity.

• It has high antioxidant activity, moisturizes the skin and makes the skin look smooth.

### Origin

Developed from Prunella vulgaris (Self-heal) stem cells using ProliCell® Technology.



### What is ProliCell<sup>®</sup> Technology?

ProliCell<sup>®</sup> Technology enables to benefit the effects of plant stem cells and small RNAs in their vesicles. **Effect Mechanism** 

ProliCell® Prunella contains enriched stem cell components and stem cell specific exogenous small RNAs thanks to the elicitor application.

### What is the effect of small RNA?

Small RNAs, including miRNA are non-coding RNA fragments, which regulate the post-transcriptional silencing of target genes. Plant small RNAs may exert similar functions in both human and plant. This provides exogenous plant small RNAs to play a key role on the physiological function of the human body, including the skin.

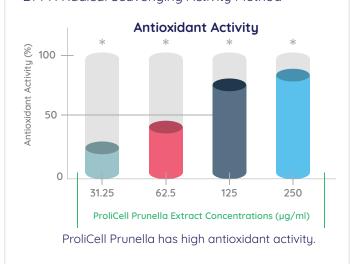


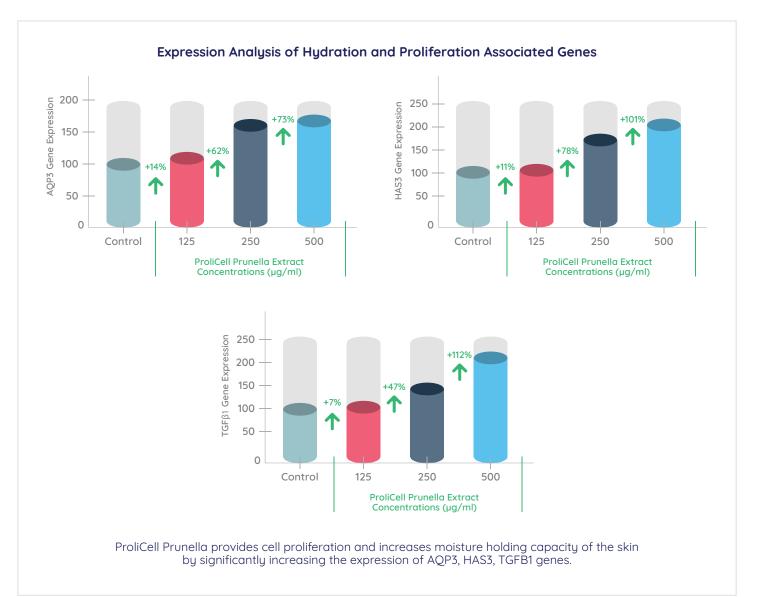
# **Activity Tests**

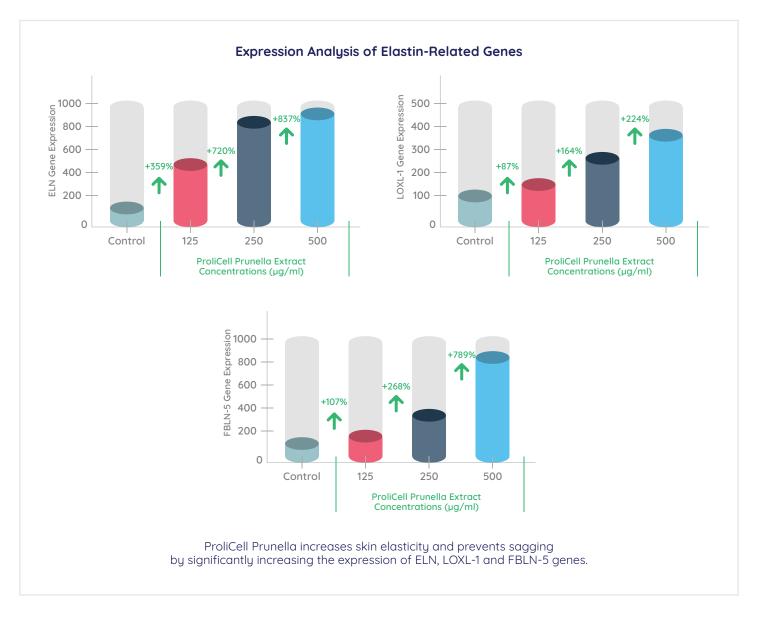
### In vitro Tests

**Cell line:** Human normal fibroblast cell **Test ingredient:** 250 ve 500 µg/mL ProliCell Prunella extract **Parameter:** Analysis of expressions of hydration and proliferation-related genes by RT-qPCR, Analysis of expression of elastin-related genes by RT-qPCR, Determination of wound healing activity For gene and protein expression analysis, fibroblast cells were incubated with ProliCell Prunella extract concentrations for 24 hours.

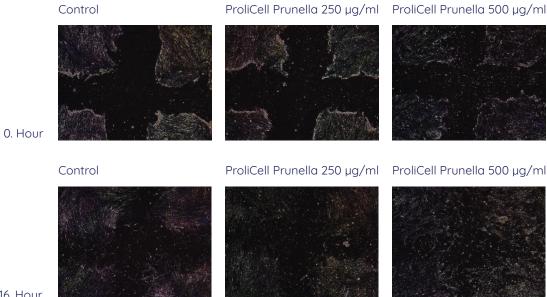
### Chemical Activity Test: DPPH Radical Scavenging Activity Method







### Determination of Wound Healing with the Scratch Assay Method



16. Hour

ProliCell Prunella accelerates wound healing by increasing fibroblast migration.

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### Effect Mechanism



- Shows high antioxidant activity.
- Shows anti-sagging activity by activating
- elastin synthesis and elastin-related genes.
- Increases the moisture holding capacity of the skin.
- Shows wound healing activity.



### **Cosmetic Uses**

- Anti-sagging Products
  (Face and Skin Care Products)
  Wound Healing Products
- (Face and Skin Care Products)





Features



Origin: Herbal Appearance: Viscous cell lysate suspension Color: Dark Brown Fragrance: Characteristic Usage: Add below 40°C in cold-hot processes.



INCI Name: Glycerin, Prunella vulgaris Leaf Extract, Xanthan Gum. Usage rate: 2-5% Solubility: Water-soluble Preservative: No preservative pH: 4.0-7.0





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