

식물유래추출물 & 엑소좀

# Plant Callus Extract & Exosome

**Edelweiss**



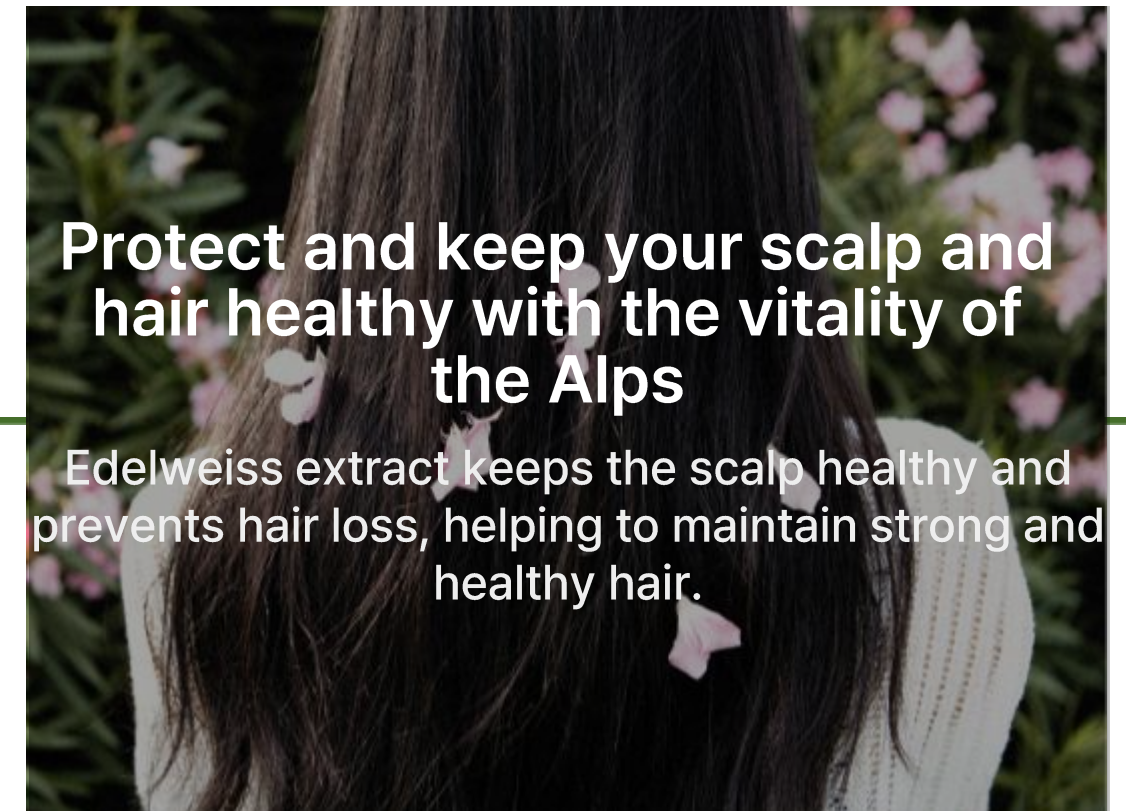
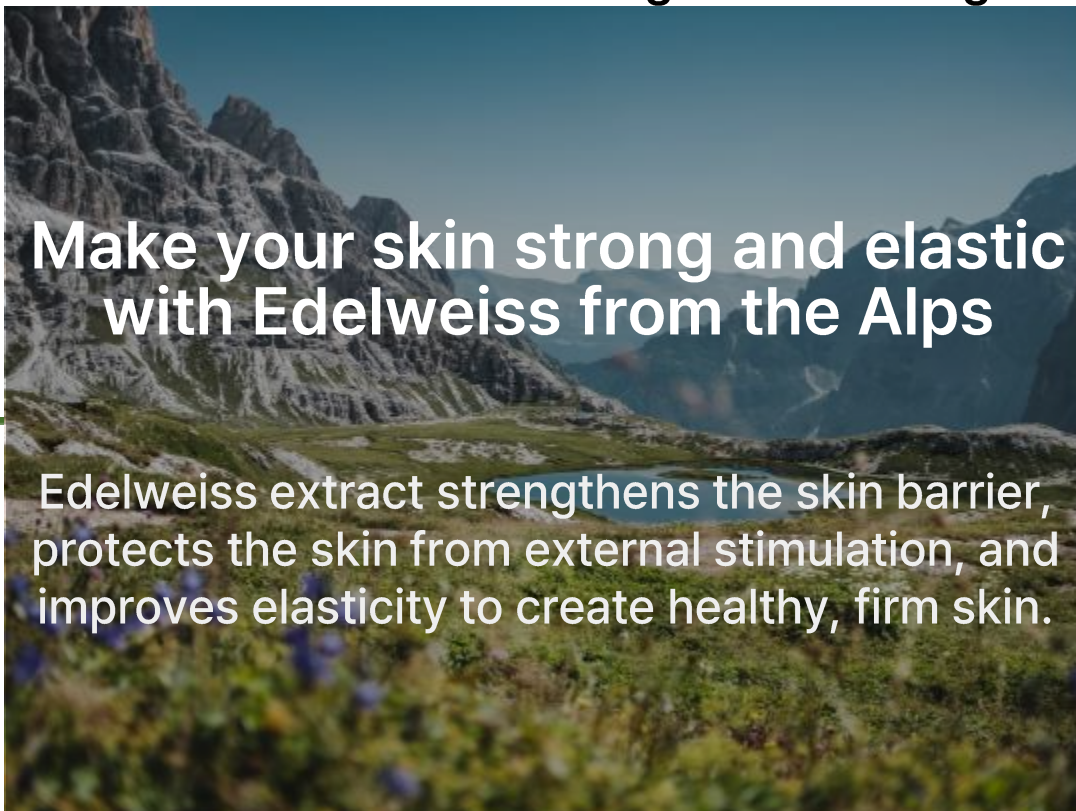
# Fresh vitality delivered by Edelweiss, the pure white flower of the Alps

- It protects skin from damage caused by oxidative stress and external harmful substances.
- It maintains natural moisture balance by moisturizing and supplying moisture to the skin.
- It helps reduce skin aging, such as wrinkles.
- It can provide mild UV protection to the skin.

- Scientific name : *Leontopodium alpinum*
- Export information : Available for export to China and Japan
- Package size : 1kg

## KEY POINT

#Antioxidation #Skin soothing #Moisturizing #Anti-aging #Prevention of hair loss



# Fresh vitality delivered by Edelweiss, the pure white flower of the Alps

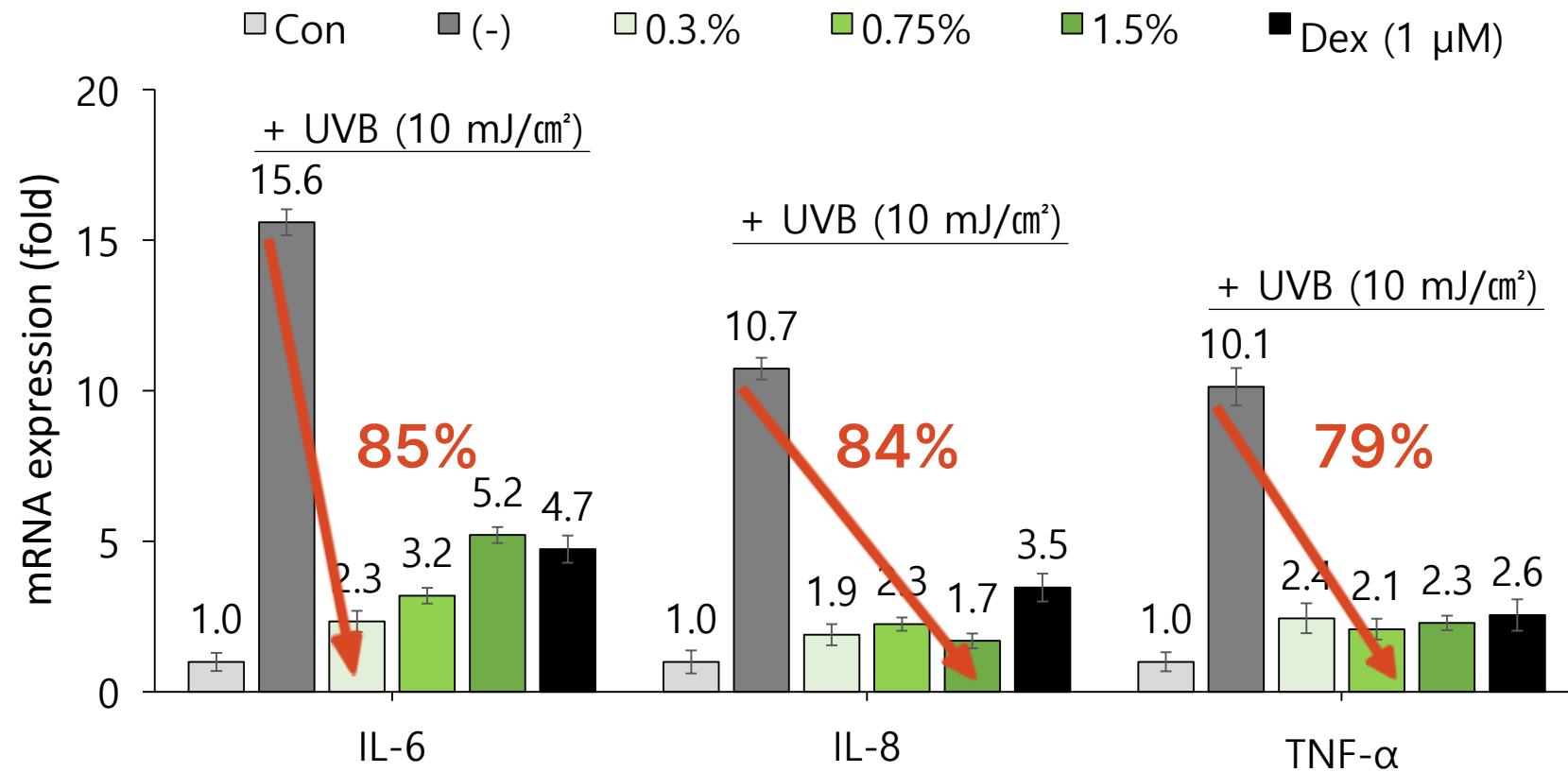
INCI : Leontopodium Alpinum Callus Culture Extract

## Cellular efficacy of Edelweiss

- Anti-inflammation, Skin barrier reinforcement, Improvement of skin elasticity, Whitening, hair loss prevention, Moisturizing -

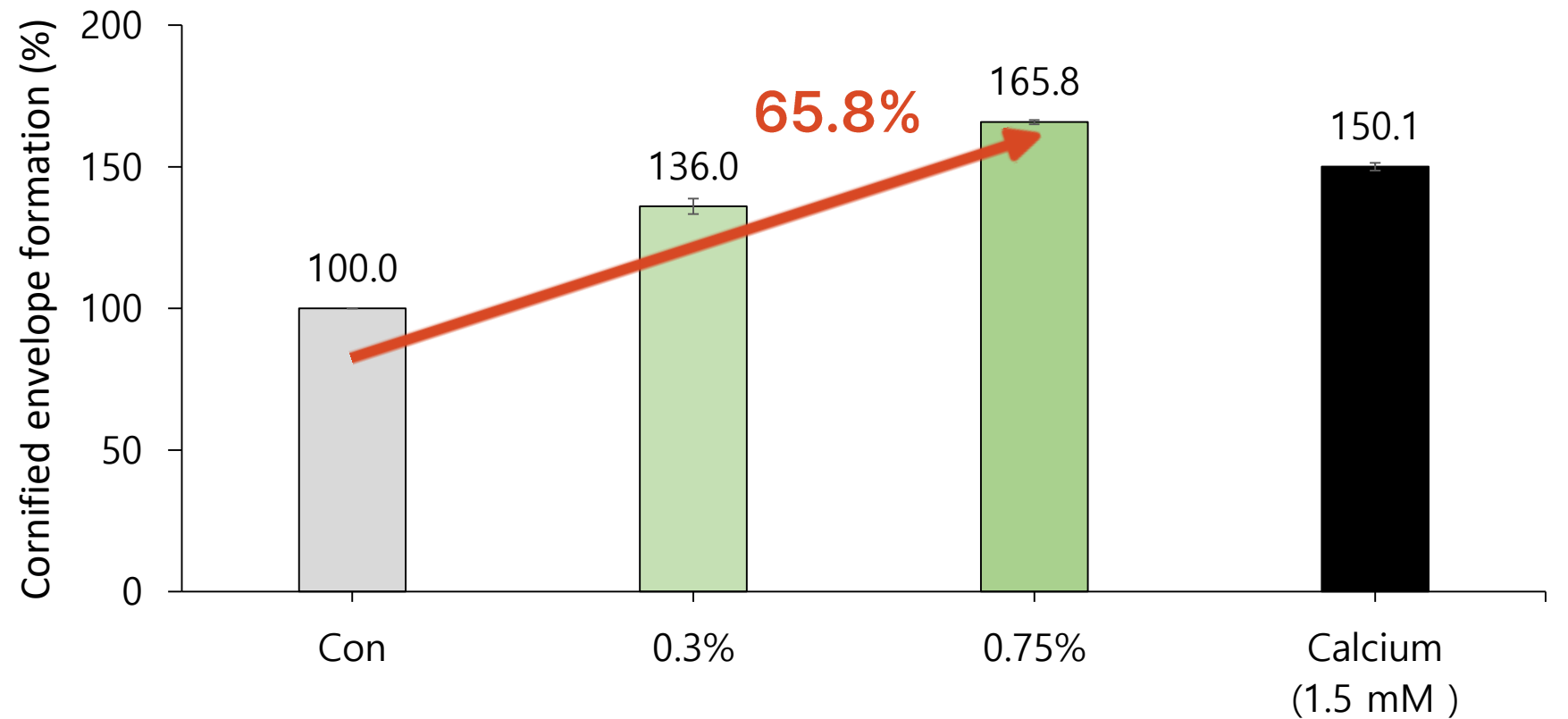
### ■ Anti-inflammation

Edelweiss extract soothes the skin by reducing the expression of inflammatory genes (IL-6, IL-8, TNF- $\alpha$ ) by up to 85%.



### ■ Skin barrier reinforcement

Edelweiss extract increases the expression of skin barrier proteins by up to 65.8%, protecting the skin and preventing moisture loss.



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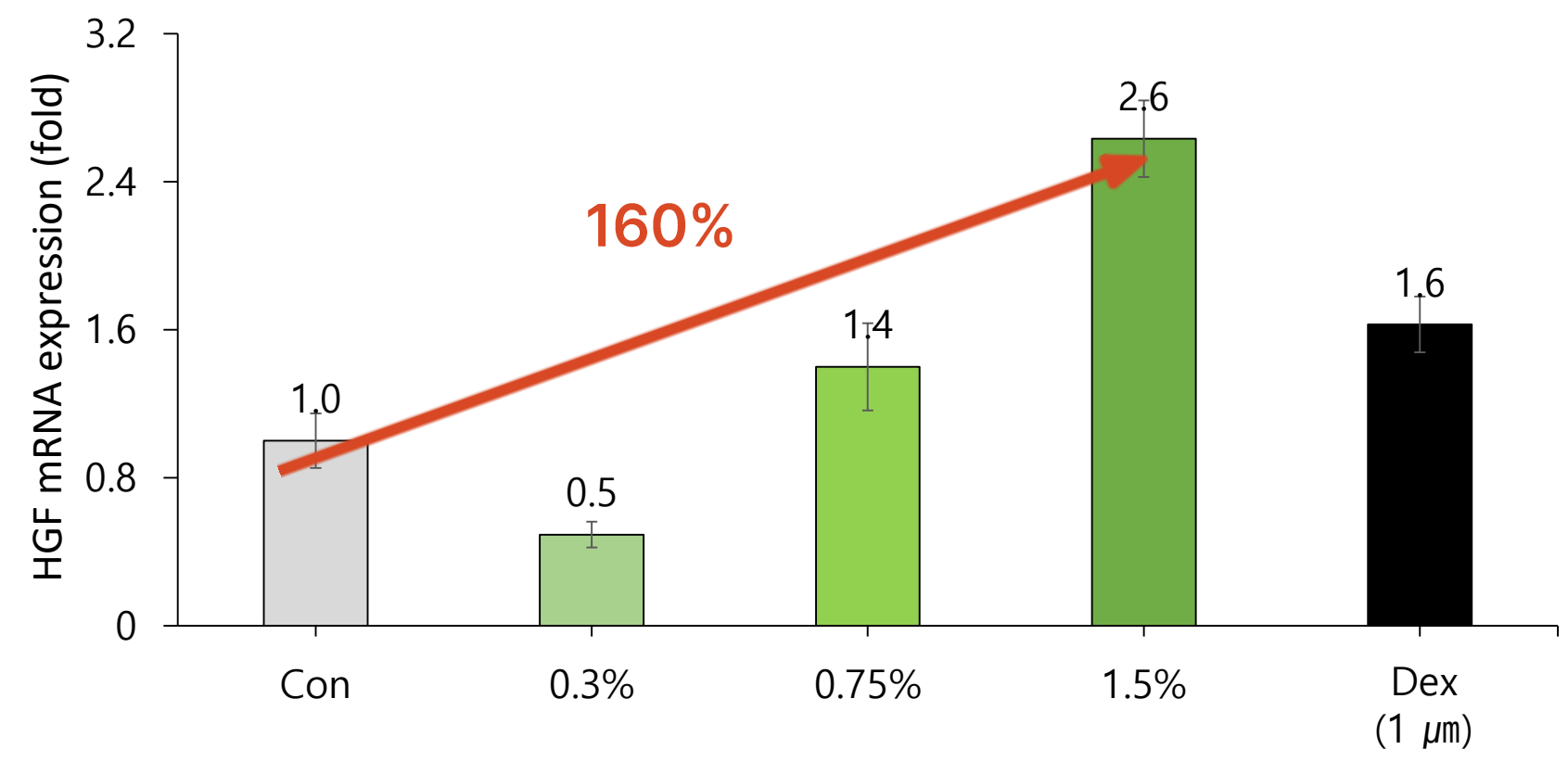
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## Cellular efficacy of Edelweiss

- Anti-inflammation, Skin barrier reinforcement, Improvement of skin elasticity, Whitening, hair loss prevention, Moisturizing -

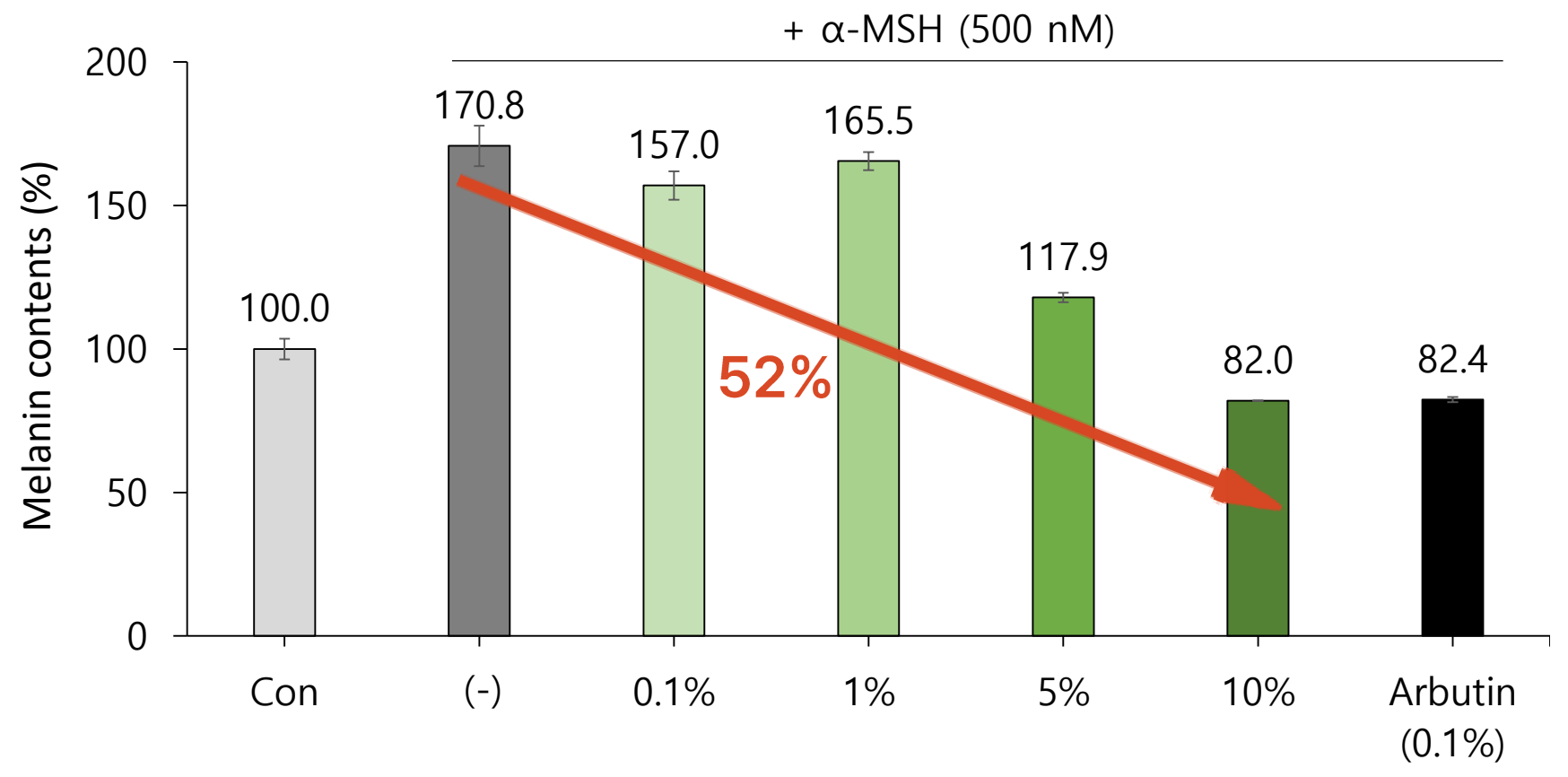
### ■ Improvement of skin elasticity

Edelweiss extract increases skin elasticity by increasing the expression of collagen synthesis gene (HGF) by up to 160%.



### ■ Whitening

Edelweiss extract reduces the synthesis of melanin, the main cause of pigmentation, by 52%, making the skin bright and clean.



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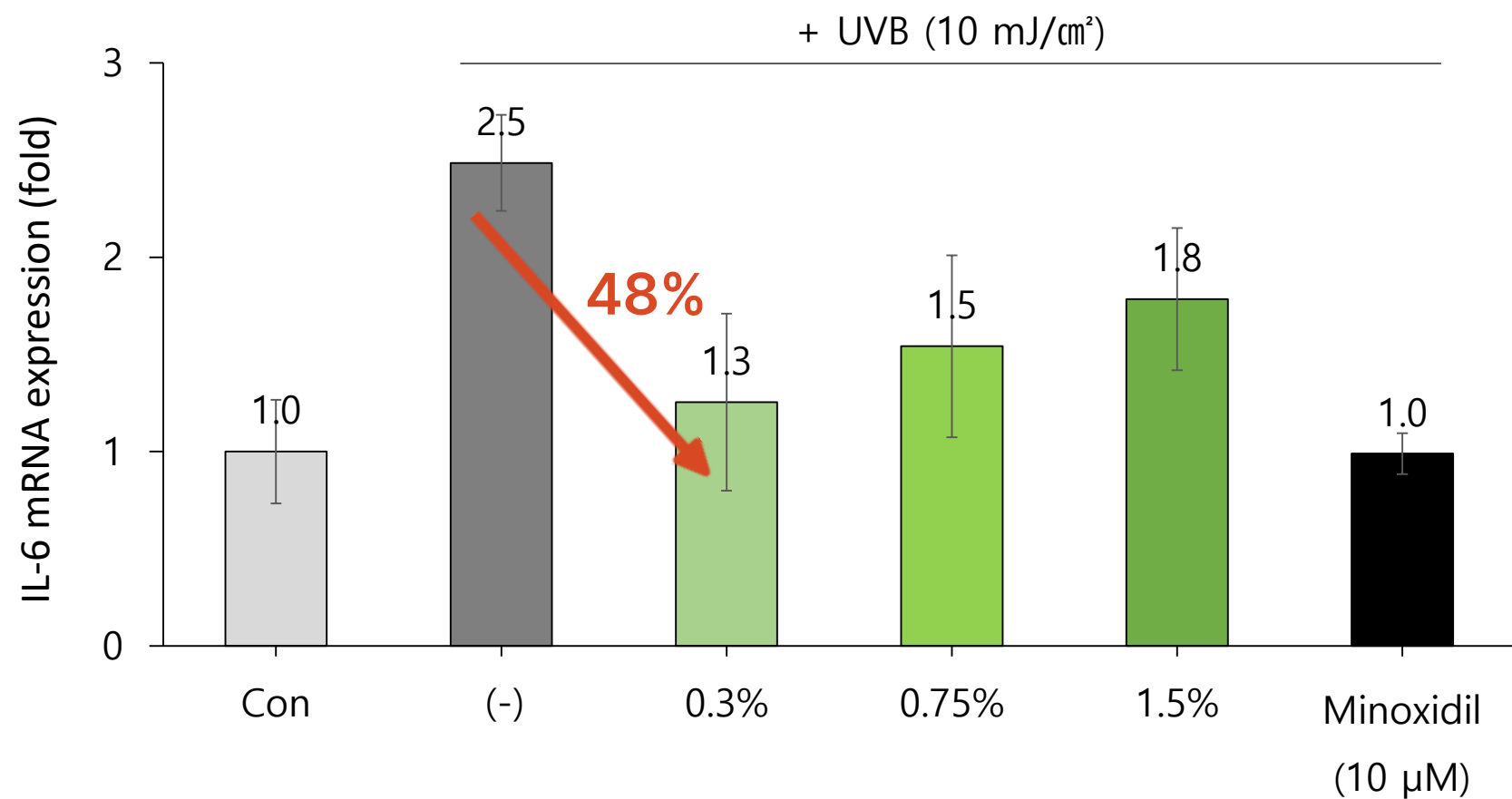
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## Cellular efficacy of Edelweiss

- Anti-inflammation, Skin barrier reinforcement, Improvement of skin elasticity, Whitening, hair loss prevention, Moisturizing -

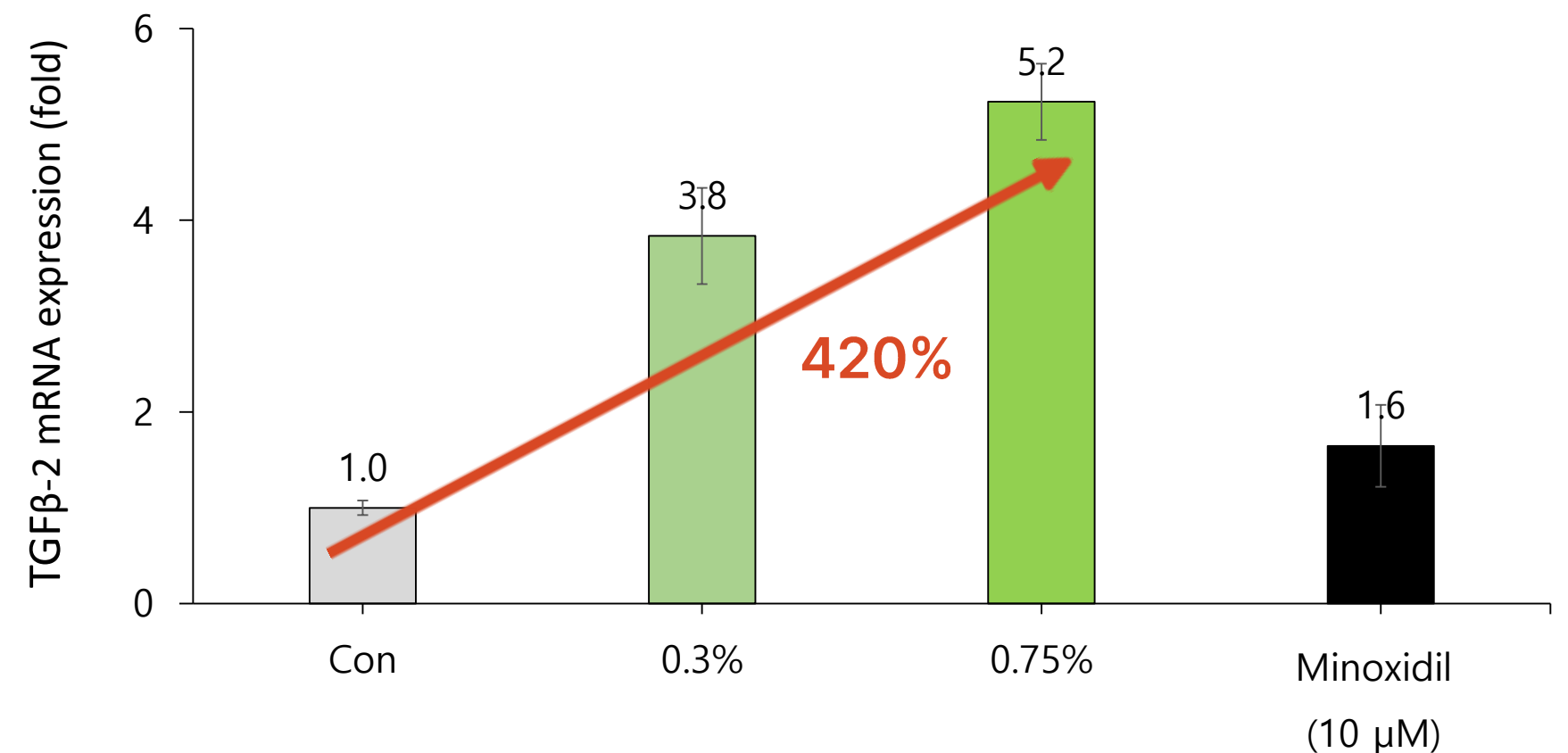
### ■ Anti-inflammation to dermal papilla cells

Edelweiss extract reduces the activity of genes (IL-6) that cause inflammation in dermal papilla cells by 48% and protects the scalp and hair from ultraviolet rays.



### ■ Proliferation of dermal papilla cells

Edelweiss extract increases the gene expression (TGFβ-2) of hair papilla cells by 420%, improving the cell proliferation ability and promoting hair health.



# Fresh vitality delivered by Edelweiss, the pure white flower of the Alps

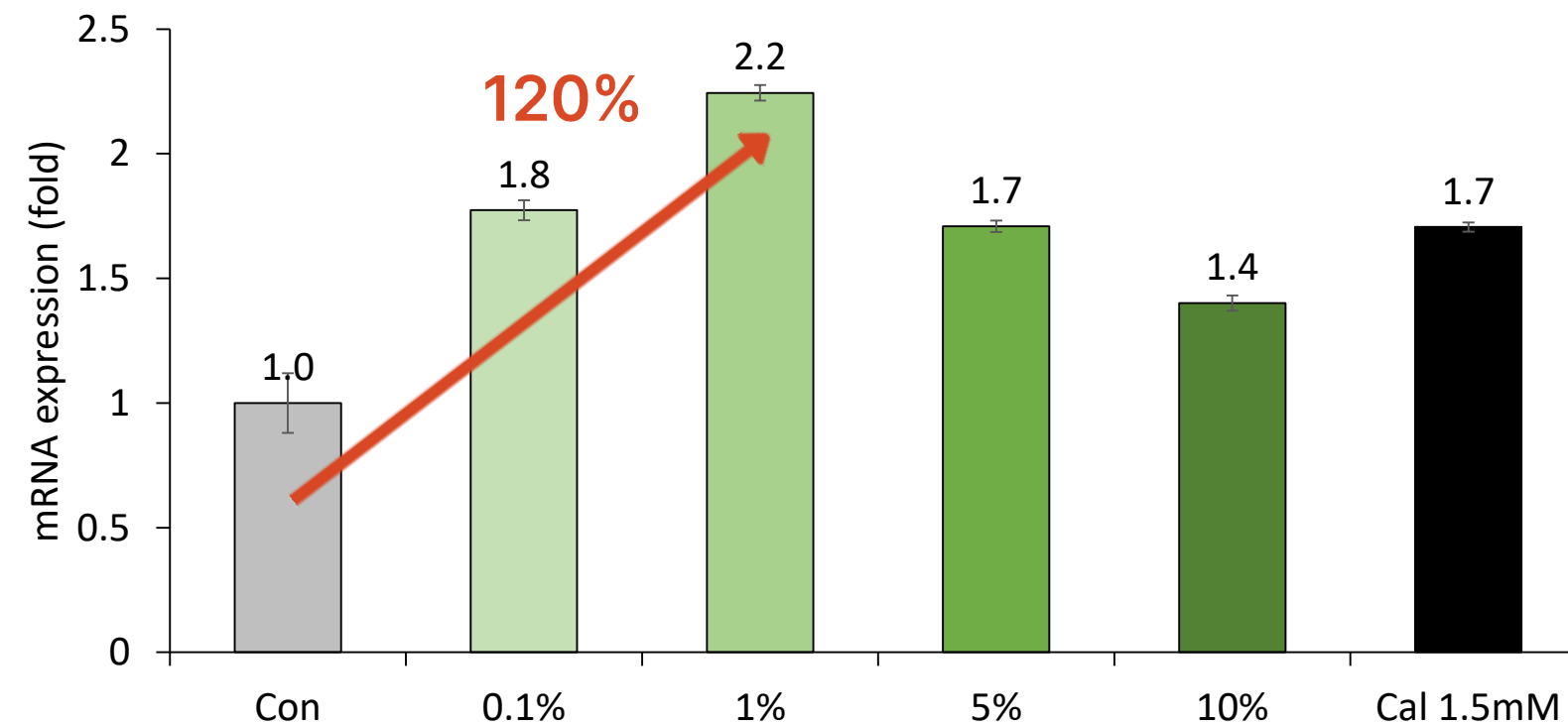
INCI : Leontopodium Alpinum Callus Culture Extract

## Cellular efficacy of Edelweiss

- Anti-inflammation, Skin barrier reinforcement, Improvement of skin elasticity, Whitening, hair loss prevention, Moisturizing -

### ■ Moisturizing

Edelweiss extract increases the expression of genes (HAS-2) involved in skin moisturizing by up to 120%, helping to absorb moisture from the outside of cells into the inside or preserve existing moisture.

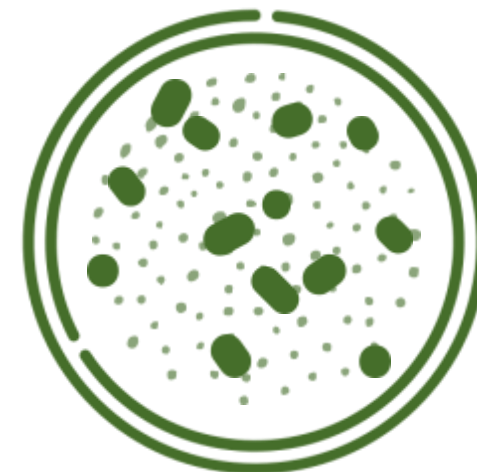


DASAN C&Tech's upgraded natural origin and skin-friendly technology

## "Plant-derived Exosome"

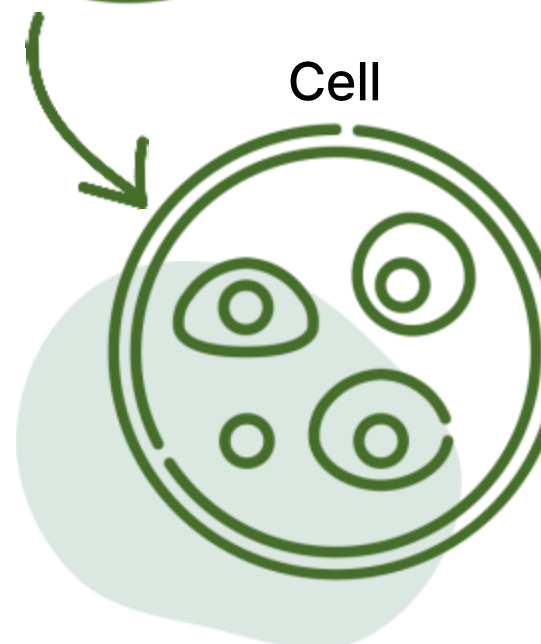
### Reasons for using plant-derived exosomes

Plant-derived exosome



#### ■ Raw materials with intact nutritional content

Unlike existing plant extracts that are extracted by applying heat, exosomes are made by processing the raw material as is, so the various nutrients are preserved without being destroyed and work on the skin.



Cell

#### ■ Increased absorption as a skin-friendly raw materials

Unlike traditional raw materials that struggle to pass through cell membranes and act on them, exosomes have a phospholipid bilayer structure similar to cell membranes, enhancing their penetration and absorption capabilities.

DASAN C&Tech's upgraded natural origin and skin-friendly technology

**"Edelweiss Exosome"**

INCI : Leontopodium Alpinum Callus Extracellular Vesicles

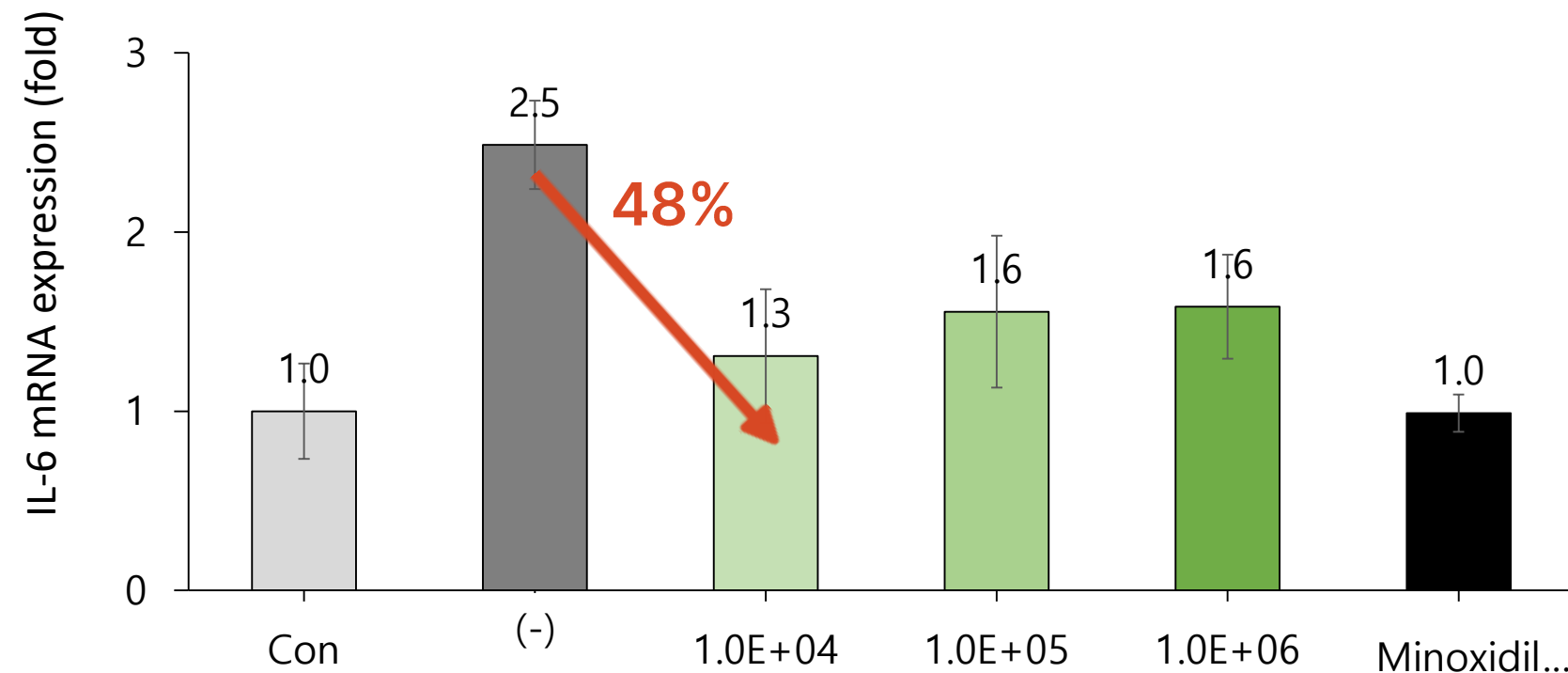
**Cellular efficacy of Edelweiss Exosome**

- hair loss prevention, Skin barrier reinforcement, Anti-inflammation, Improvement of skin elasticity -

■ **Anti-inflammation to dermal papilla cells**

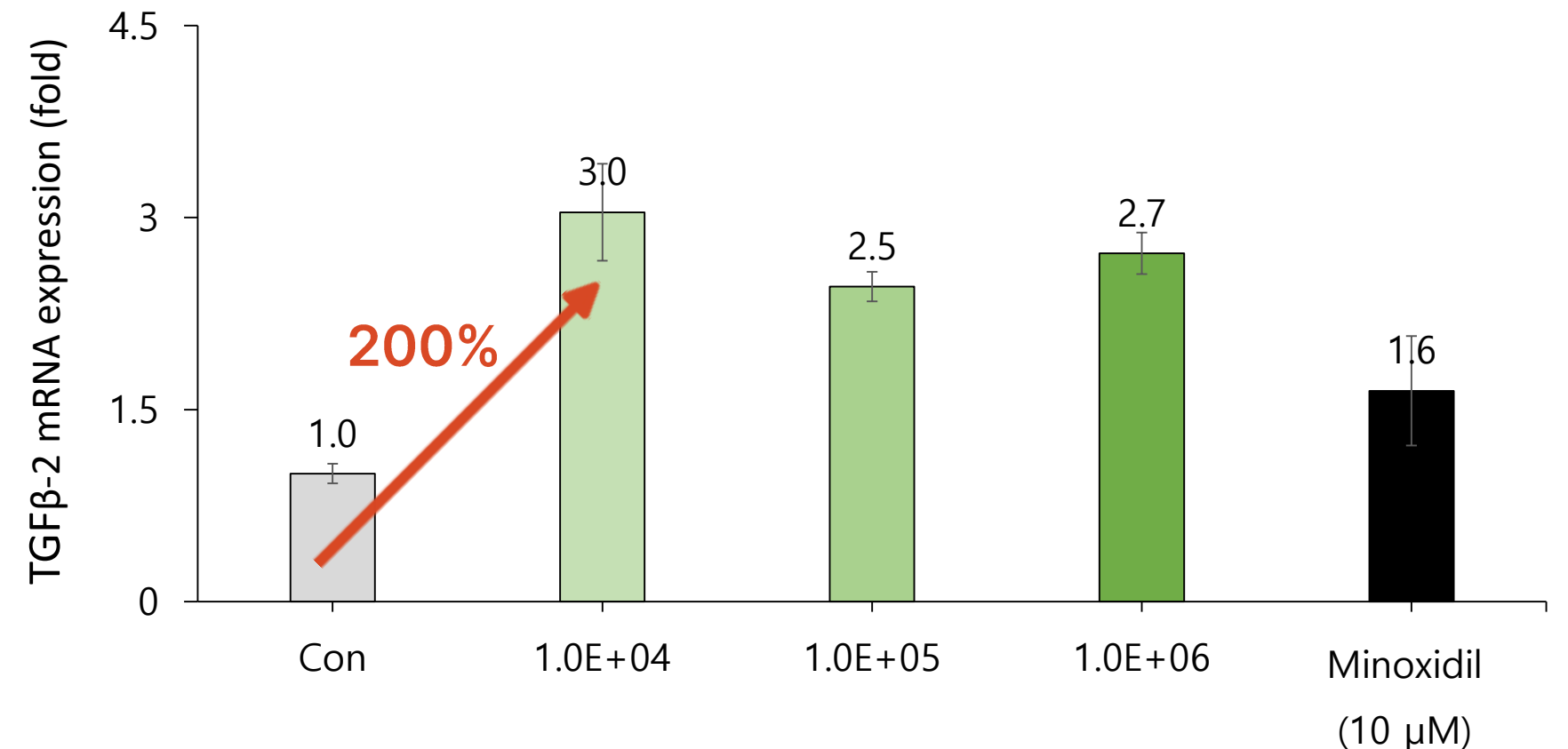
Edelweiss exosomes reduces the activity of genes (IL-6) that cause inflammation in dermal papilla cells by 48% and protects the scalp and hair from ultraviolet rays.

+ UVB (10 mJ/cm<sup>2</sup>)



■ **Proliferation of dermal papilla cells**

Edelweiss exosomes increases the gene expression (TGFβ-2) of hair papilla cells by 200%, improving the cell proliferation ability and making hair healthy.



DASAN C&Tech's upgraded natural origin and skin-friendly technology

**"Edelweiss Exosome"**

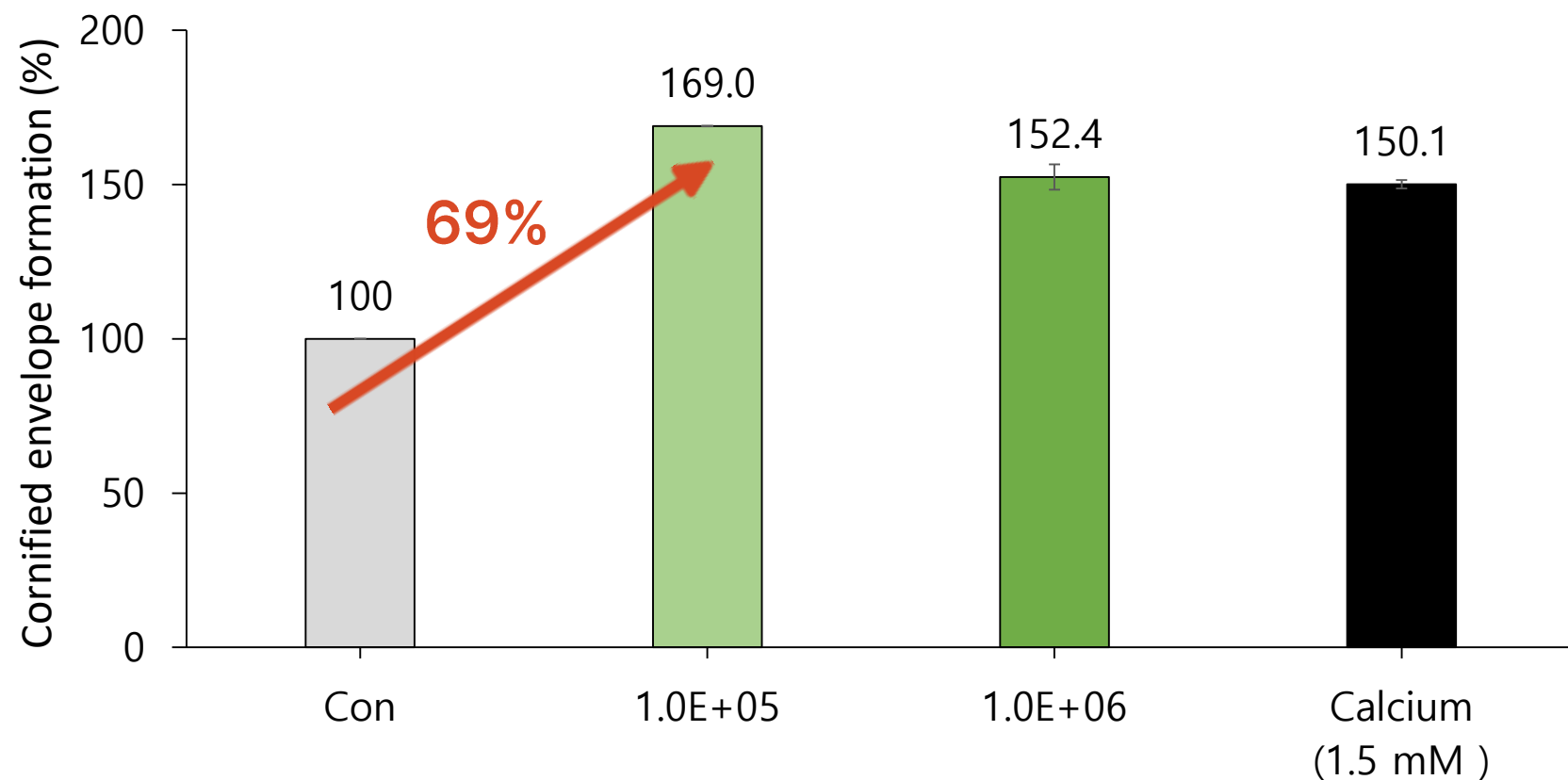
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**Cellular efficacy of Edelweiss Exosome**

- hair loss prevention, Skin barrier reinforcement, Anti-inflammation, Improvement of skin elasticity -

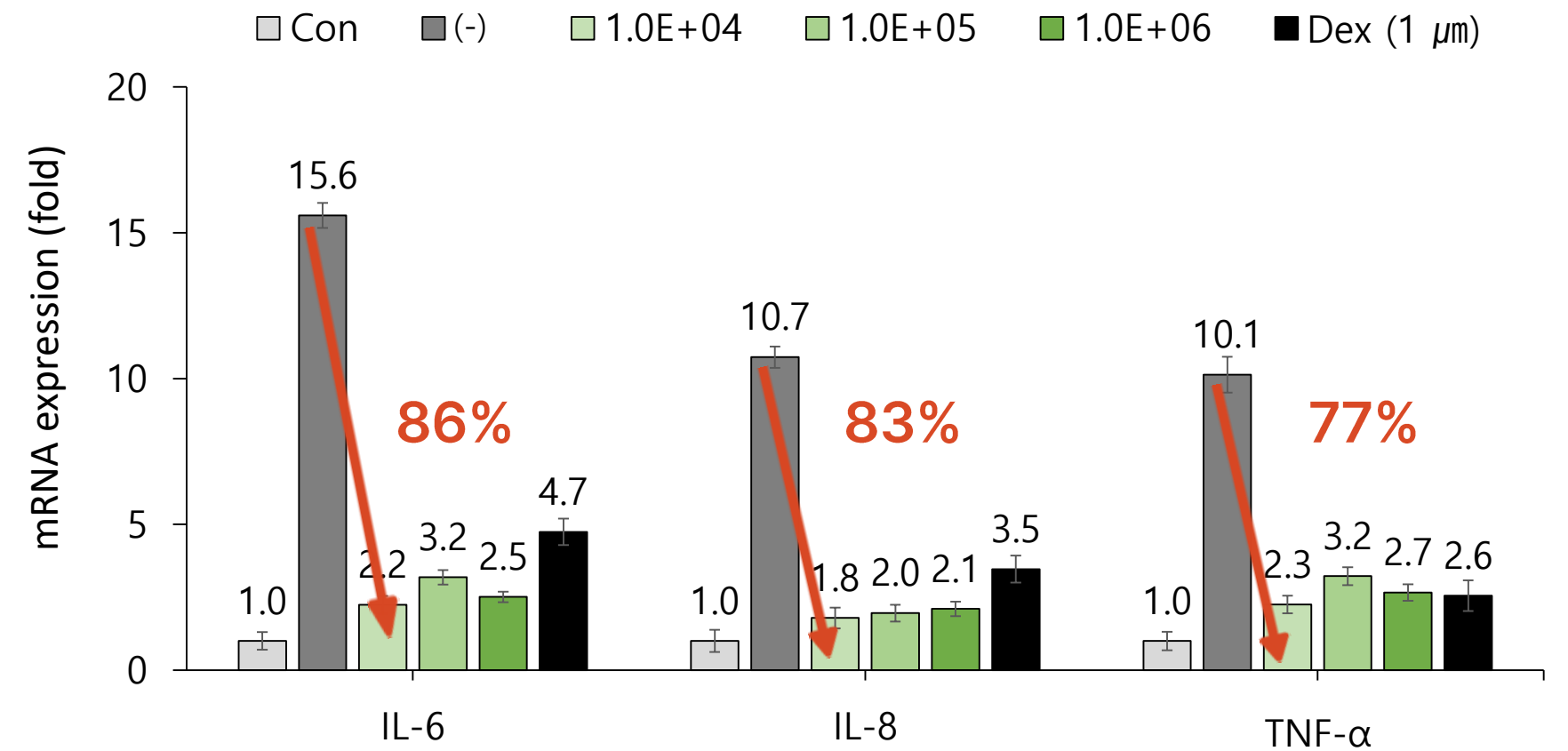
■ Skin barrier reinforcement

Edelweiss exosomes increases the expression of skin barrier proteins by up to 69%, protecting the skin and preventing moisture loss.



■ Anti-inflammation

Edelweiss exosomes soothe the skin by reducing the expression of inflammatory genes (IL-6, IL-8, TNF-α) by up to 86%.



DASAN C&Tech's upgraded natural origin and skin-friendly technology

## "Edelweiss Exosome"

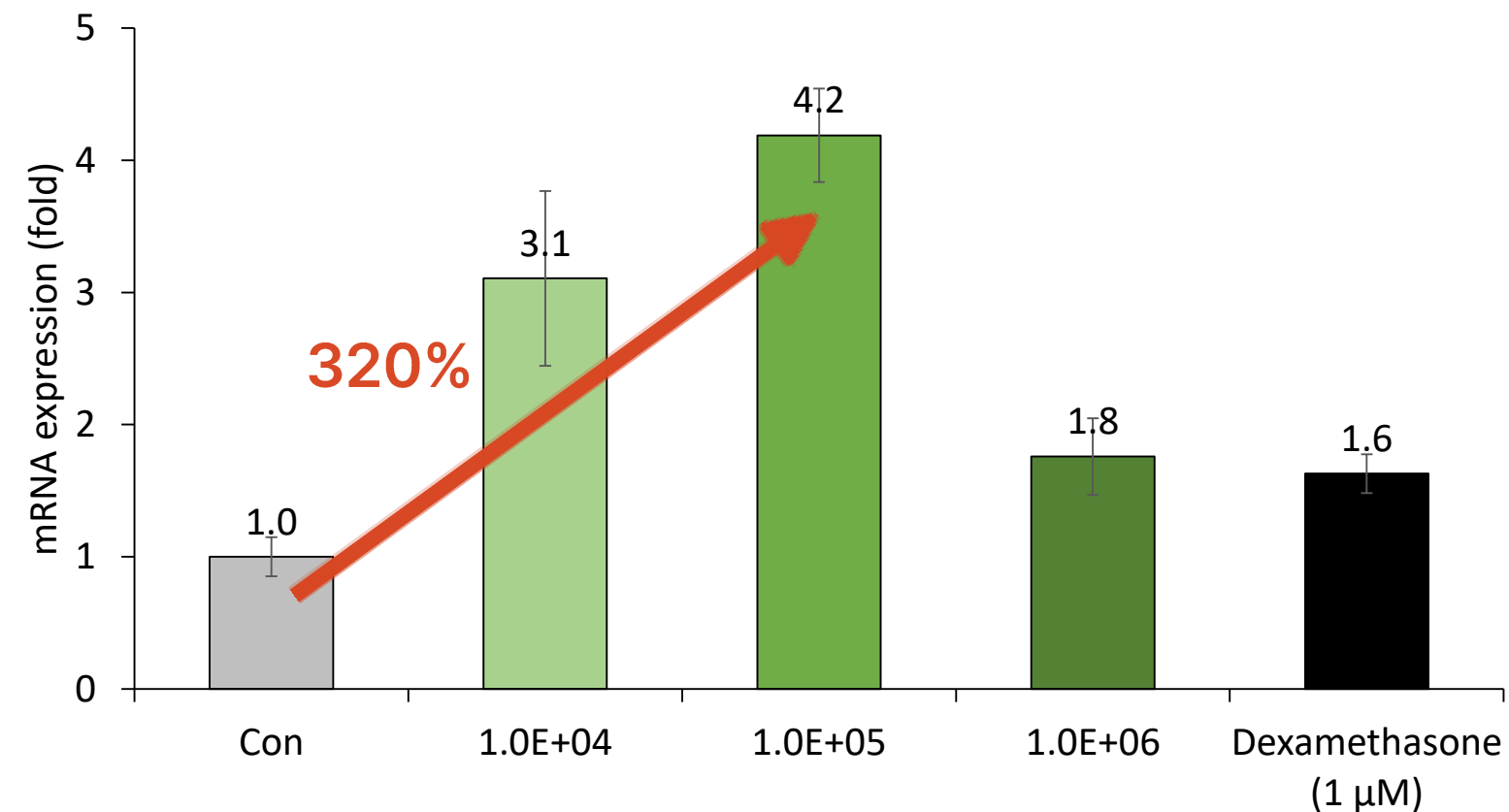
INCI : Leontopodium Alpinum Callus Extracellular Vesicles

### Cellular efficacy of Edelweiss Exosome

- hair loss prevention, Skin barrier reinforcement, Anti-inflammation, Improvement of skin elasticity -

#### ■ Improvement of skin elasticity

Edelweiss exosomes increase skin elasticity by increasing the expression of collagen synthesis gene (HGF) by up to 320%.



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## CONTACT US

