

# Jeju Carrot

## ECM Boosting Active

### Extensin C-30

Collagen-like glycoprotein from Jeju carrot, rich in hydroxyproline & serine



**80%**

**Reduction of Senescent Cell**

Supports cellular longevity



**78.5%**

**ROS reduction**

Increased Antioxidant Defense



**1.5X**

**More wound closure vs Retinoic Acid**

Supporting skin regeneration within 24 hr in vitro

## THE JEJU DIFFERENCE



Carrots are widely known for their connection to skin health—often associated with a natural glow, improved skin tone, and overall vitality. This well-established perception is rooted in their high levels of beta-carotene, a key nutrient linked to skin clarity, renewal, and protection against environmental stress.



On Jeju Island, this familiar ingredient takes on a new dimension. Shaped by volcanic soil, strong coastal winds, and intense sunlight, Jeju carrots adapt by accumulating even higher levels of beta-carotene—effectively storing solar energy to protect themselves and thrive in a harsh environment.



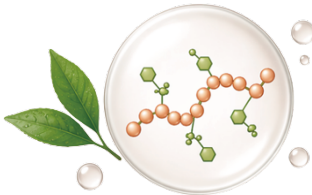
Recognizing both the trusted skin benefits of carrot and the enhanced resilience developed in Jeju, Durae selected Jeju carrot to capture this concentrated “solar energy” and translate it into a next-generation active for skin regeneration and vitality.

FROM JEJU ISLAND SUN & NATURE



**CONCENTRATED SOLAR ENERGY**

from Jeju Carrot



### WHAT IS HYDROLYZED EXTENSIN?

Hydrolyzed Extensin is a plant-derived structural glycoprotein engineered to mimic collagen behavior, supporting ECM integrity while activating fibroblast-driven regeneration pathways.



**PLANT-DERIVED**  
Sustainably sourced from plants



**COLLAGEN-MIMETIC**  
Mimics collagen structure and function



**SUPPORTS ECM INTEGRITY**  
Helps maintain extracellular matrix structure and strength



**ACTIVATES FIBROBLASTS**  
Stimulates fibroblast activity and promotes skin regeneration



**SKIN REGENERATION**  
Enhances skin resilience, elasticity, and overall skin quality

Plant-Derived Protein



Enzymatic Hydrolysis



Hydrolyzed Extensin



ECM Support



Fibroblast Activation

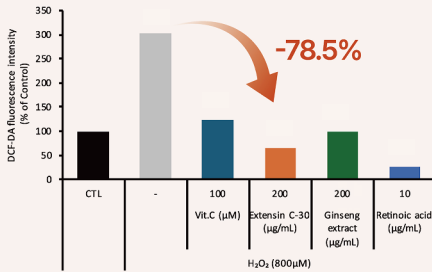
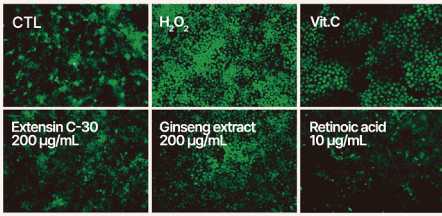


Skin Regeneration



# SCIENCE-BACKED DATA To Support Proven Efficacy

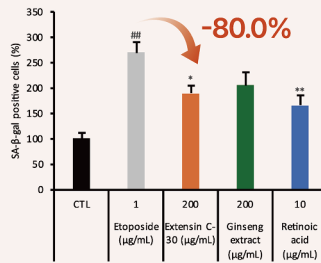
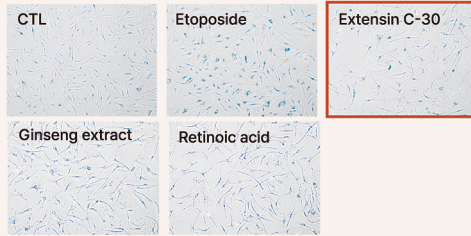
## 1 ANTIOXIDANT DEFENSE Protective Effect against Oxidative Stress



ROS Scavenging activity ↑

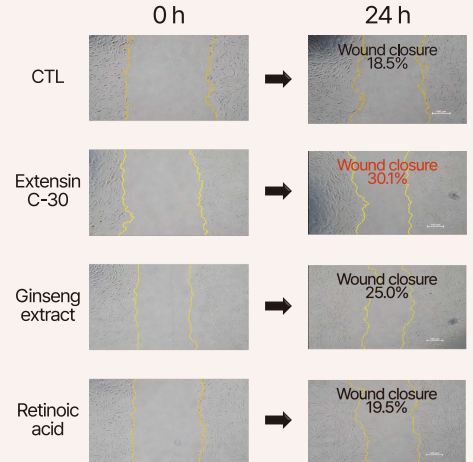
• Potent antioxidant activity with 78.5% ROS reduction

## 2 ANTI-SENESCENCE Inhibition of Cellular Senescence



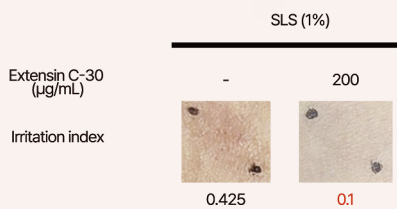
• Cellular Longevity Support  
• Help reduce senescence-associated markers

## 3 SKIN REGENERATION Wound Healing Effect



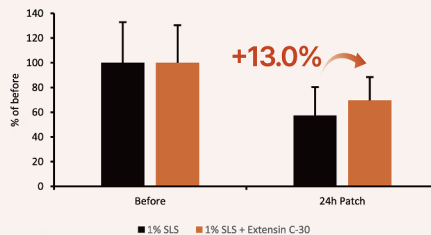
• Extensin C-30 achieved the highest wound closure, supporting skin repair and regeneration

## 4 BARRIER REINFORCEMENT Mitigation of SLS-Induced Skin Irritation



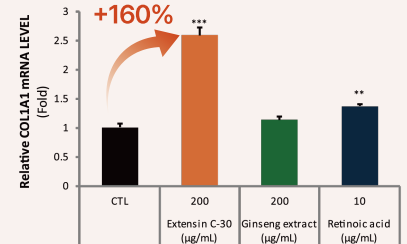
• Clinically evaluated in 20 participants, co-application with Extensin C-30 helped calm SLS-induced irritation, reduced the PII from 0.425 to 0.1, and visibly eased redness.

## 5 MOISTURE RETENTION Clinical Validation: 24h Moisture Retention



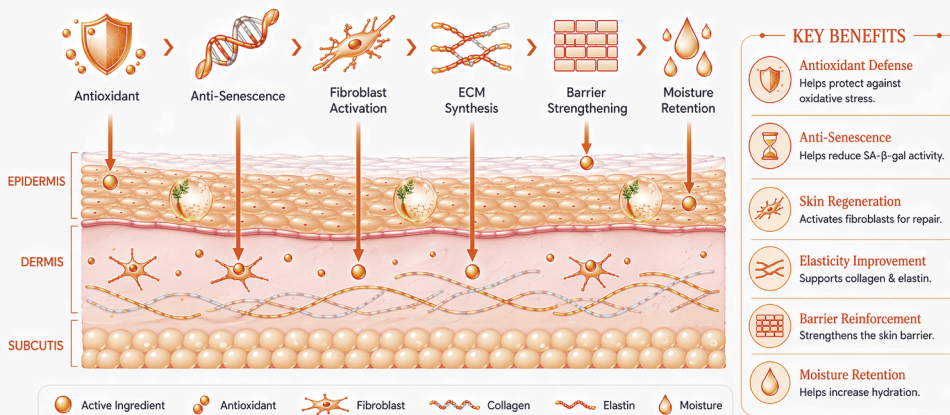
• Clinically tested in 20 participants, the formula improved surface hydration by 13% after 24-hour patch application under irritated skin conditions versus SLS alone.

## 6 ELASTICITY IMPROVEMENT Anti-aging & Elasticity: COL1A1 Up-regulation



• Extensin C-30 increased COL1A1 mRNA expression by 2.6-fold in fibroblasts, suggesting its potential to support type I collagen synthesis and improve dermal firmness.

## MECHANISM OF ACTION



## KEY COMPONENTS

- ✓ Collagen-like Glycoprotein
- ✓ Hydroxyproline
- ✓ Serine
- ✓ Essential Amino Acids



### CLEAN & RESPONSIBLE



### GLOBAL AVAILABILITY



### CERTIFICATIONS



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