

## Palmitoyl Dipeptide-7

Cat. No. CECF-022

Lot. No. (See product label)

### Introduction

#### Description

The NRF2 signaling pathway plays a crucial role in defending the human body against oxidative stress caused by free radicals. NRF2 (nuclear factor erythroid 2-related factor 2) is a transcription factor that regulates the expression of antioxidant enzymes, thereby protecting cells from oxidative damage. When activated, NRF2 translocates into the nucleus and binds to antioxidant response elements (ARE), initiating the expression of various antioxidant and detoxification enzymes such as superoxide dismutase, glutathione peroxidase, and glutathione reductase. These enzymes can neutralize free radicals, reducing oxidative stress on cells. Palmitoyl Dipeptide-7 is a signaling peptide that effectively activates the NRF2 signaling pathway, thereby enhancing antioxidant capacity. By activating the NRF2 pathway, Palmitoyl Dipeptide-7 can promote the synthesis of antioxidant enzymes, helping to eliminate free radicals and mitigate oxidative stress on skin cells. Additionally, Palmitoyl Dipeptide-7 has the following effects: 1. Anti-aging and Wrinkle Reduction: Palmitoyl Dipeptide-7 promotes collagen synthesis, helping to restore skin elasticity and firmness, thereby reducing the formation of wrinkles and fine lines. 2. Increased Production of Elastin and Hyaluronic Acid: Elastin and hyaluronic acid are essential for maintaining skin elasticity and hydration. Palmitoyl Dipeptide-7 promotes the production of these components, making the skin softer and more elastic. 3. Increased Production of Glycosaminoglycans and Fibronectin: These components are crucial for the structure and function of the skin. Palmitoyl Dipeptide-7 enhances their production, thereby improving overall skin health.

#### Applications

Used in face and neck care products to combat free radical oxidation and improve wrinkles. It has synergistic effect with other anti-wrinkle peptides.

### Product Information

<b>Appearance</b>	Clarified clear liquid
<b>Form</b>	Liquid
<b>CAS No.</b>	911813-90-6
<b>pH Stability</b>	3.0-5.0

### Usage and Packaging

<b>Package</b>	1kg/bottle
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### Storage and Shipping Information

<b>Storage</b>	Keep sealed, shaded and cool.
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