



Recombinant Humanized Type XVII Collagen Sterile Lyophilized Powder

Product Number: RPA007

Shipping and Storage

1. Can be transported and stored at room temperature for a short period of time. It is recommended to seal and store at -20°C or below.
2. The shelf life of storage in a dry environment below -20°C is at least 1 year.

Description

XVII collagen (COL17) is a transmembrane protein in the basal layer of the epidermis, which maintains tight connections between the epidermis and dermis to promote epidermal replacement and stabilize the basement membrane, achieving anti-aging repair from the basement membrane band. There is evidence to suggest that the hydrolysis of COL17 can cause hair follicle miniaturization, ultimately leading to hair loss. COL17 has great potential in delaying the treatment of hair loss due to its unique physiological functions.

This product is a recombinant humanized type XVII collagen protein derived from microorganisms. This product has excellent water solubility and stability, as well as good hydrophilicity and moisturizing properties. Adopting the Pichia pastoris fermentation process to ensure lower and safer endotoxin levels in the product.

Application

Type XVII collagen is a transmembrane protein in the basal layer of the epidermis, which maintains a tight connection between the epidermis and dermis to promote epidermal replacement and stabilize the basement membrane, achieving anti-aging repair from the basement membrane band. There is evidence to suggest that the hydrolysis of COL17 can cause hair follicle miniaturization, ultimately leading to hair loss. COL17 has great potential in delaying the treatment of hair loss due to its unique physiological functions.

Specification

1. **Source species:** Microorganisms
2. **Gene source:** human
3. **Molecular weight:** 10KD~
4. **PI:** 7.54
5. **Solubility:** Dissolve 100g/L in water, let it sit for 24 hours, the solution is transparent and there are no suspended particles

Quality control

1. **Appearance:** White or light white sponge like freeze-drying
2. **Electrophoretic purity:** $\geq 90\%$ (SDS-PAGE)
3. **Protein content:** $>90\%$ (Lowry method)
4. **Moisture content:** $<10\%$
5. **Endotoxin:** $<10\text{EU/mg}$ (LAL test)
6. **Nucleic acid residue:** $<1\text{ppm}$
7. **Microorganisms:** Total bacterial colony count $<100\text{Cfu/g}$, total fungal colony count $<10\text{Cfu/g}$
8. **Heavy metals:** total residual heavy metal content (Pb) $<10\text{ppm}$, Arsenic (As) content $<2\text{ppm}$, mercury (Hg) content $<2\text{ppm}$, lead (Pb) content $<5\text{ppm}$, chromium (Cr) content $<5\text{ppm}$, cadmium (Cd) content $<2\text{ppm}$.
9. **Colony:** Escherichia coli - not detected; Staphylococcus aureus - not detected; Pseudomonas aeruginosa - not detected.

For Research Use Only



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Note

1. For your safety and health, please wear lab clothes, protective gloves, goggles, etc. when using.
2. This sterile freeze-dried powder is prone to moisture absorption, please seal and store.