



# Recombinant Humanized Collagen, Type III Sterile Lyophilized Powder

**Product Number: RPC004**

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## Shipping and Storage

1. Suggest sealed storage, with a storage temperature below -20°C.
2. The shelf life of storage in a dry environment below -20°C is at least 1 year.

## Description

Collagen is a protein family widely distributed in animal connective tissues, which plays an important role in maintaining normal physiological functions and repairing injuries of cells, tissues, and organs. Collagen has a wide range of applications in fields such as medicine, tissue engineering, food, cosmetics, etc. due to its excellent physical properties and biological characteristics.

This product is recombinant humanized type III collagen, derived from microorganisms. This product has excellent water solubility and stability, as well as good hydrophilicity and moisturizing properties. The efficient expression of yeast and chromatographic purification ensure the purity of the product, and this product does not contain bacterial endotoxins, resulting in better performance.

## Application

Collagen is a protein abundant in the human body and is crucial for maintaining normal physiological functions. Recombinant humanized collagen has a wide range of applications in the fields of medicine, tissue engineering, food, cosmetics, etc. due to its excellent physical properties and biological characteristics.

## Specification

1. **Source species:** Microorganisms
2. **Gene source:** human
3. **Molecular weight:** 30~40KD
4. **PI:** 6.59
5. **Solubility:** Easily soluble in water

## Quality control

1. **Appearance:** white powder
2. **PH:** 5-8
3. **Electrophoretic purity:**  $\geq 95\%$  (SDS-PAGE)
4. **Protein content:**  $>90\%$
5. **Moisture content:**  $<10\%$
6. **Microorganisms:**  $<5\text{cfu/g}$
7. **Endotoxin:**  $\leq 0.5\text{EU/mg}$
8. **Thermal stability:** No foreign matter produced
9. **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 $<2\text{ppm}$ .
10. **Colony:** Escherichia coli - not detected; Staphylococcus aureus - not detected; Pseudomonas aeruginosa - not detected.

## Note

1. For your safety and health, please wear lab clothes, protective gloves, goggles, etc. when using.

**For Research Use Only**



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2. This sterile freeze-dried powder is prone to moisture absorption, please seal and store.