



## RayBiotech, Inc.

3607 Parkway Lane suite 200  
Norcross, GA 30092  
Tel: 770-729-2992, 1-888-494-8555  
Fax: 770-206-2393  
Website: [www.raybiotech.com](http://www.raybiotech.com)  
Email: [info@raybiotech.com](mailto:info@raybiotech.com)

# Certificate of Analysis and Data Sheet NATIVE Human COLLAGEN I

**Catalog No.**  
DS-01-0055

**Target Species**  
Human

## Preparation

Collagen from washed dissected tissue was dissolved in acetic acid after mild pepsin treatment. Collagen type I was then purified using differential salt precipitation.

## Specificity

Collagen is located in the extracellular matrix of connective tissues. It is part of the interacting network of proteoglycans and proteins that provides a structural framework for both soft and calcified connective tissues. Type I collagen (95 kDa) is found in bone, cornea, skin and tendon. Mutations in the encoding gene are associated with osteogenesis imperfecta, Ehlers Danlos syndrome, and idiopathic osteoporosis

## Formulation

**Product Form:** Purified protein from human placenta - lyophilized

**Reconstitution:** Use 0.05-0.5 M acetic acid, pH 2.5 at 4°C.

**Buffer Solution:** Phosphate buffered saline

**Preservative Stabilizers:** None present.

**Molecular Weight:** 300 kDa

**Purity:** >90%

## Storage

Store at -20°C only.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the protein. Should this product contain a precipitate we recommend microcentrifugation before use.

**Shelf Life:** 18 months from date of dispatch.

## Applications

Table Summary of protein applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	•			

Note: Optimal dilutions should be determined by each laboratory for each application.

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**