

Recombinant Human Collagen I Protein, His tagged, Animal Free

Cat. No. Collagen I-015H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant human Collagen I is a 10.7 kDa protein containing 116 amino acid residues fused to a 6 His tag N-terminal. rHuman Collagen migrates as a 14-15 kDa band under reducing conditions. Recombinant human Collagen I is a fragment of Collagen alpha-1(I) chain, the major structural component of skin, bone, tendon and other fibrous connective tissue. Type I Collagen is a key factor of the tensile properties of the ECM. The amino acid sequence is mainly a repeating motif with glycine in very third position with proline or 4-hydroxyproline preceding the glycine residue. Since this sequence contains the tripeptide Arg-Gly-Asp (RGD), considered as best know collagen cell surface receptors, recombinant collagen I could participate in the regulation and cellular signaling via the RGD motif.

Species	Human
Source	Non-transgenic plants
Description	Type I collagen is a member of group I collagen (fibrillar forming collagen).
Form	Lyophilized
Molecular Mass	10.7 kDa
Endotoxin	< 0.04 EU/μg protein (LAL method)
Purity	> 95% by SDS-PAGE

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Storage	This lyophilized preparation is stable at 2-8 centigrade for short term. For longer storage it should be kept at -20 centigrade. Reconstituted protein should be stored in working aliquots at -20 centigrade. Repeated freezing and thawing is not recommended.
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Reconstitution	Always centrifuge the vial before opening. Lyophilized protein should be reconstituted in water following instructions of batch Quality Control Sheet. At higher concentrations solubility may be reduced and, due to the protein nature, dimmers and multimers generated. Optimal concentration should be determined for specific application.
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Storage Buffer	Lyophilized Sodium Acetate Buffer pH 5-5,2. Sterile filtered through 0.2 µm filter.
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GENE INFORMATION

Official Symbol	Collagen I
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Synonyms	Collagen I
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