

# Recombinant Human COL3A1 protein

**Cat. No.** COL3A1-19587H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human COL3A1 protein was expressed in <i>Pichia pastoris</i> . Six times ploygene of a human-like collagen monomeric gene(EF376007), which is designed and synthesized according to human type III collagen, the unique character of collagenous domain, especially, which is made up of total repeat of "Gly-x-y" unit, and aimed at improving the water-solubility.
<b>Species</b>	Human
<b>Source</b>	<i>P.pastoris</i>
<b>Description</b>	This gene encodes the pro-alpha1 chains of type III collagen, a fibrillar collagen that is found in extensible connective tissues such as skin, lung, uterus, intestine and the vascular system, frequently in association with type I collagen. Mutations in this gene are associated with Ehlers-Danlos syndrome types IV, and with aortic and arterial aneurysms. Two transcripts, resulting from the use of alternate polyadenylation signals, have been identified for this gene.
<b>Form</b>	Lyophilized from water, No additives.
<b>Molecular Mass</b>	The RHC-99S has a predicted molecular mass of 55.0kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of 112kDa due to Linear protein.
<b>Purity</b>	>99.5% by HPLC
<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -70°C.

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**Storage** Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

**Reconstitution** Use sterile water to dissolve and dilute to the required concentration. Should be used as soon as possible after dissolution.

## GENE INFORMATION

**Gene Name** COL3A1 collagen, type III, alpha 1 [ Homo sapiens ]

**Official Symbol** COL3A1

**Synonyms** COL3A1; collagen, type III, alpha 1; EDS4A, Ehlers Danlos syndrome type IV, autosomal dominant; collagen alpha-1(III) chain; collagen, fetal; alpha1 (III) collagen; Ehlers-Danlos syndrome type IV, autosomal dominant; EDS4A; FLJ34534;

**Gene ID** 1281

**mRNA Refseq** NM\_000090

**Protein Refseq** NP\_000081

**MIM** 120180

**UniProt ID** P02461

**Chromosome Location** 2q32.2

**Pathway** Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Axon guidance, organism-specific biosystem; Developmental Biology, organism-specific

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biosystem; ECM-receptor interaction, organism-specific biosystem; ECM-receptor interaction, conserved biosystem; Endothelins, organism-specific biosystem;

**Function**

SMAD binding; extracellular matrix structural constituent; integrin binding; integrin binding; platelet-derived growth factor binding; protein binding;

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