

Recombinant Human COL3A1 protein

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

SPECIFICATION

Product Overview	Recombinant Human COL3A1 protein was expressed in Pichia pastoris. 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.
Species	Human
Source	P.pastoris
Description	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.
Form	Lyophilized from water, No additives.
Molecular Mass	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.
Purity	>99.5% by HPLC
Stability	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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