Recombinant Human COL3A1

Cat. No. COL3A1-72H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Collagen, type III, alpha 1 was expressed in E. coli.
Species	Human
Source	E.coli
Description	Collagen alpha-1(III) chain is a fibrillar collagen that is found in extensible connective tissues such as skin, lung, and the vascular system, frequently in association with type I collagen. Mutations in this gene are associated with Ehlers-Danlos syndrome type IV, and with aortic and arterial aneurysms. Although alternate transcripts have been detected for this gene, they are the result of mutations; these mutations alter splicing, often leading to the exclusion of multiple exons.By fluorescence in situ hybridization, Limongi et al. (1997) concluded that the COL3A1 gene is located in chromosome band 2q32.2 and that the nebulin gene is located in band 2q24.2; the FRA2G fragile site was found to lie between the 2 genes in the 2q31 band.
Form	The protein solution is in 0.05M phosphate buffer containing 0.15M NaCl and 0.09% NaN3 pH 7.5. Filtered through a 0.4μM membrane.
Molecular Mass	68.9kDa
Endotoxin	< 1.0 eu per μg of the protein as determined by the LAL method.
Purity	>95 % as determined by SDS-PAGE

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Applications	Western blotting, ELISA
Storage	Store it under sterile conditions at -20℃ to -122℃ upon receiving.Recommend to aliquot the protein into smaller quantities for optimal storage.

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

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	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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