

Recombinant Human Collagen, Type VI, Alpha 1

Cat. No. COL6A1-1870H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human COL6A1 was expressed in <i>E. Coli</i> .
Species	Human
Source	E.coli
Description	Collagens are major fibrous structural elements of cartilage, tendon, bone, skin, lung, and blood vessels. Type III collagen consists of three alpha1(III) chains and is most often found in skin, blood vessels, and internal organs. Collagen VI is a major structural component of microfibrils. The basic structural unit of collagen VI is a heterotrimer of the alpha1(VI), alpha2(VI), and alpha3(VI) chains. The alpha2(VI) and alpha3(VI) chains are encoded by the COL6A2 and COL6A3 genes, respectively. Mutations in the genes that code for the collagen VI subunits result in the autosomal dominant disorder, Bethlem myopathy.
Physical Appearance	Sterile Filtered clear solution.
Purity	Greater than 95.0% as determined by SDS-PAGE.
Formulation	Collagen-VI at 100Âg/ml in 50mM Tris-Acetate, pH7.5, 1mM EDTA and 20% Glycerol.
Stability	Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months. Please prevent freeze-thaw cycles.

GENE INFORMATION

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Gene Name	COL6A1 collagen, type VI, alpha 1 [Homo sapiens]
Synonyms	collagen, type VI, alpha 1; OPLL; COL6A1; collagen alpha-1(VI) chain; alpha 1 (VI) chain (61 AA); collagen VI, alpha-1 polypeptide;human mRNA for collagen VI alpha-1 C-terminal globular domain9
Gene ID	1291
mRNA Refseq	NM_001848.2
Protein Refseq	NP_001839.2
MIM	120220
UniProt ID	P12109
Chromosome Location	21q22.3
Pathway	ECM-receptor interaction; Focal adhesion; Axon guidance; Signaling by PDGF
Function	platelet-derived growth factor binding; molecular_function; protein binding

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