

Recombinant Human COL6A1, His-tagged

Cat. No. COL6A1-11438H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human COL6A1 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.

Species Human

Source E.coli

ProteinLength 770-1028a.a.

Description The collagens are a superfamily of proteins that play a role in maintaining the integrity of various tissues. Collagens are extracellular matrix proteins and have a triple-helical domain as their common structural element. 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. The protein encoded by this gene is the alpha 1 subunit of type VI collagen (alpha1(VI) chain). Mutations in the genes that code for the collagen VI subunits result in the autosomal dominant disorder, Bethlem myopathy.

Storage The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

Storage Buffer 1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

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GENE INFORMATION

Gene Name	COL6A1 collagen, type VI, alpha 1 [Homo sapiens]
Official Symbol	COL6A1
Synonyms	COL6A1; collagen, type VI, alpha 1; collagen alpha-1(VI) chain; alpha 1 (VI) chain (61 AA); collagen VI, alpha-1 polypeptide; OPLL;
Gene ID	1291
mRNA Refseq	NM_001848
Protein Refseq	NP_001839
MIM	120220
UniProt ID	P12109
Chromosome Location	21q22.3
Pathway	Axon guidance, organism-specific biosystem; Developmental Biology, organism-specific biosystem; ECM-receptor interaction, organism-specific biosystem; ECM-receptor interaction, conserved biosystem; Focal adhesion, organism-specific biosystem; Focal adhesion, conserved biosystem; NCAM signaling for neurite out-growth, organism-specific biosystem;
Function	platelet-derived growth factor binding;

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