

Recombinant Human COL10A1, MYC/DDK-tagged

Cat. No. COL10A1-88H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human COL10A1, fused with C-terminal MYC/DDK, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes the alpha chain of type X collagen, a short chain collagen expressed by hypertrophic chondrocytes during endochondral ossification. Unlike type VIII collagen, the other short chain collagen, type X collagen is a homotrimer. Mutations in this gene are associated with Schmid type metaphyseal chondrodysplasia (SMCD) and Japanese type spondylometaphyseal dysplasia (SMD).
Molecular Mass	64.1 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	COL10A1 collagen, type X, alpha 1 [Homo sapiens (human)]
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Official Symbol	COL10A1
Synonyms	COL10A1; collagen, type X, alpha 1; collagen alpha-1(X) chain; Schmid metaphyseal chondrodysplasia; COAA1_HUMAN; Col10a 1; COL10A1; Collagen alpha 1(X) chain; Collagen alpha-1(X) chain; Collagen type X alpha 1 (Schmid metaphyseal chondrodysplasia); Collagen type X alpha 1; Collagen X alpha 1 polypeptide; CollagenX; fa66d11; fb10c08; OTTHUMP00000040411; Procollagen type X alpha 1; Schmid metaphyseal chondrodysplasia; wu:fa66d11; wu:fb10c08; collagen X, alpha-1 polypeptide
Gene ID	1300
mRNA Refseq	NM_000493
Protein Refseq	NP_000484
MIM	120110
UniProt ID	Q03692
Chromosome Location	6q21-q22
Pathway	Assembly of collagen fibrils and other multimeric structures; Collagen biosynthesis and modifying enzymes; Collagen formation; Endochondral Ossification
Function	metal ion binding; protein binding

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