Recombinant Human COL1A2, His-tagged

Cat. No. COL1A2-116H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human COL1A2 was expressed as 6*his-tagged fusion protein by E.Coli and puri?ed by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	1017-1366aa
Description	This gene encodes the pro-alpha2 chain of type I collagen whose triple helix comprises two alpha1 chains and one alpha2 chain. Type I is a fibril-forming collagen found in most connective tissues and is abundant in bone, cornea, dermis and tendon. Mutations in this gene are associated with osteogenesis imperfecta types I-IV, Ehlers-Danlos syndrome type VIIB, recessive Ehlers-Danlos syndrome Classical type, idiopathic osteoporosis, and atypical Marfan syndrome. Symptoms associated with mutations in this gene, however, tend to be less severe than mutations in the gene for the alpha1 chain of type I collagen (COL1A1) reflecting the different role of alpha2 chains in matrix integrity. Three transcripts, resulting from the use of alternate polyadenylation signals, have been identified for this gene.
Storage	The protein is stored in PBS bu?er at -20 oC. Repeated freezethaw cycles should be avoided.
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	COL1A2?collagen, type I, alpha 2 [?Homo sapiens?(human)]
Official Symbol	COL1A2
Synonyms	COL1A2; OI4; collagen, type I, alpha 2; collagen alpha-2(I) chain; type I procollagen; alpha 2(I)-collagen; alpha-2 type I collagen; collagen I, alpha-2 polypeptide; collagen of skin, tendon and bone, alpha-2 chain
Gene ID	1278
mRNA Refseq	NM_000089
Protein Refseq	NP_000080
MIM	120160
UniProt ID	P08123
Chromosome Location	7q22.1
Pathway	Binding and Uptake of Ligands by Scavenger Receptors; ECM-receptor interaction; Focal Adhesion
Function	extracellular matrix structural constituent; identical protein binding; metal ion binding

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