

Recombinant Human COL2A1 protein, His-tagged

Cat. No. COL2A1-3929H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human COL2A1 protein(Asp 1242-Leu 1487)(P02458-2) was expressed in HEK293, with a polyhistidine tag at the N-terminus.
Species	Human
Source	HEK293
ProteinLength	1242-1487 aa
Form	Lyophilized from sterile PBS, pH 7.4.
Molecular Mass	The recombinant human COL2A1 (aa 1242-1487), known as chondrocalcin consists of 265 amino acids and has a calculated molecular mass of 29.8 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of the protein is approximately 37 kDa due to glycosylation.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Purity	> 92 % as determined by SDS-PAGE
Storage	Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of

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0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	COL2A1 collagen, type II, alpha 1 [Homo sapiens]
Official Symbol	COL2A1
Synonyms	COL2A1; collagen, type II, alpha 1; collagen, type II, alpha 1 (primary osteoarthritis, spondyloepiphyseal dysplasia, congenital), SEDC; collagen alpha-1(II) chain; chondrocalcin; cartilage collagen; alpha-1 type II collagen; collagen II, alpha-1 polypeptide; AOM; ANFH; SEDC; COL11A3; MGC131516;
Gene ID	1280
mRNA Refseq	NM_001844
Protein Refseq	NP_001835
UniProt ID	P02458

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