

Recombinant Full Length Human COL2A1 Protein, GST-tagged

Cat. No. COL2A1-2137HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human COL2A1 full-length ORF (AAH07252, 1 a.a. - 268 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
Protein Length	268 amino acids
Description	This gene encodes the alpha-1 chain of type II collagen, a fibrillar collagen found in cartilage and the vitreous humor of the eye. Mutations in this gene are associated with achondrogenesis, chondrodysplasia, early onset familial osteoarthritis, SED congenita, Langer-Saldino achondrogenesis, Kniest dysplasia, Stickler syndrome type I, and spondyloepimetaphyseal dysplasia Strudwick type. In addition, defects in processing chondrocalcin, a calcium binding protein that is the C-propeptide of this collagen molecule, are also associated with chondrodysplasia. There are two transcripts identified for this gene. [provided by RefSeq, Jul 2008]
Molecular Mass	55.22 kDa
AA Sequence	MSAFAGLGPREKGPDPPLQYMRADQAAGGLRQHDAEVDATLKSLNNQIESIRSPEGS RKNPARTCRDLKLCHPEWKSGDYWIDPNQGCTLDAMKVFCNMETGETCVYPNPAN VPKKNWSSKSKEKKHIWFGETINGGFHFSYGDDNLAPNTANVQMTFLRLLLSTEGS QNITYHCKNSIAYLDEAAGNLKALLIQGSNDVEIRAEGNSRFTYTALKDGCTKHTGK WGKTVIEYRSQKTSRLPIIDIAPMDIGGPEQEFQVVDIGPVCFL

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Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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
MIM	120140
UniProt ID	P02458

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