Native Human COL1A1

Cat. No. COL1A1-26195TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full length native protein (purified) (Human)
Species	Human
Description	This gene encodes the pro-alpha1 chains 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 VIIA, Ehlers-Danlos syndrome Classical type, Caffey Disease and idiopathic osteoporosis. Reciprocal translocations between chromosomes 17 and 22, where this gene and the gene for platelet-derived growth factor beta are located, are associated with a particular type of skin tumor called dermatofibrosarcoma protuberans, resulting from unregulated expression of the growth factor. Two transcripts, resulting from the use of alternate polyadenylation signals, have been identified for this gene.
Tissue specificity	Forms the fibrils of tendon, ligaments and bones. In bones the fibrils are mineralized with calcium hydroxyapatite.
Form	Liquid
Storage buffer	Preservative: 0.01% Sodium AzideConstituents: 0.5M Acetic acid, pH 4.5
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

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Sequence Similarities	Belongs to the fibrillar collagen family.Contains 1 fibrillar collagen NC1 domain.Contains 1 VWFC domain.
Full Length	Full L.

GENE INFORMATION

Gene Name	COL1A1 collagen, type I, alpha 1 [Homo sapiens]
Official Symbol	COL1A1
Synonyms	COL1A1; collagen, type I, alpha 1; collagen alpha-1(I) chain; OI4;
Gene ID	1277
mRNA Refseq	NM_000088
Protein Refseq	NP_000079
Uniprot ID	P02452
Chromosome Location	17q21.33
Pathway	Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Axon guidance, organism-specific biosystem; Cell surface interactions at the vascular wall, organism-specific biosystem; Developmental Biology, organism-specific biosystem;
Function	extracellular matrix structural constituent; identical protein binding; platelet-derived growth factor binding; protein binding;

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