Recombinant Human COL1A1, GST-tagged

Cat. No. COL1A1-113H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human COL1A1 partial ORF (NP_000079.1, 1021 a.a. - 1108 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
ProteinLength	1021-1108 aa
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.
Molecular Mass	35.42 kDa
AA Sequence	EGSPGRDGSPGAKGDRGETGPAGPPGAPGAPGAPGPVGPAGKSGDRGETGPAG PAGPVGPVGARGPAGPQGPRGD KGETGEQGDRGIK

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Applications	ELISA; WB-Re; AP; Array
Storage	Store at -80°C. 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	COL1A1?collagen, type I, alpha 1 [?Homo sapiens?(human)]
Official Symbol	COL1A1
Synonyms	COL1A1; OI4; collagen, type I, alpha 1; collagen alpha-1(I) chain; alpha-1 type I collagen; pro-alpha-1 collagen type 1; collagen alpha 1 chain type I; collagen alpha-1(I) chain preproprotein; collagen of skin, tendon and bone, alpha-1 chain
Gene ID	1277
mRNA Refseq	NM_000088
Protein Refseq	NP_000079
MIM	120150
UniProt ID	P02452
Chromosome Location	17q21.33
Pathway	Binding and Uptake of Ligands by Scavenger Receptors; ECM-receptor interaction; Focal Adhesion

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Function	extracellular matrix structural constituent; identical protein binding; metal ion binding

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