

Recombinant Human COL5A1, His-tagged

Cat. No. COL5A1-11437H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human COL5A1 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	243-591a.a.
Description	This gene encodes an alpha chain for one of the low abundance fibrillar collagens. Fibrillar collagen molecules are trimers that can be composed of one or more types of alpha chains. Type V collagen is found in tissues containing type I collagen and appears to regulate the assembly of heterotypic fibers composed of both type I and type V collagen. This gene product is closely related to type XI collagen and it is possible that the collagen chains of types V and XI constitute a single collagen type with tissue-specific chain combinations. Mutations in this gene are associated with Ehlers-Danlos syndrome, types I and II.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol.

GENE INFORMATION

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Gene Name	COL5A1 collagen, type V, alpha 1 [Homo sapiens]
Official Symbol	COL5A1
Synonyms	COL5A1; collagen, type V, alpha 1; collagen alpha-1(V) chain; alpha 1 type V collagen;
Gene ID	1289
mRNA Refseq	NM_000093
Protein Refseq	NP_000084
MIM	120215
UniProt ID	P20908
Chromosome Location	9q34.2-q34.3
Pathway	Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Axon guidance, organism-specific biosystem; Developmental Biology, organism-specific biosystem; ECM-receptor interaction, organism-specific biosystem; ECM-receptor interaction, conserved biosystem; Focal Adhesion, organism-specific biosystem;
Function	extracellular matrix structural constituent; heparin binding; integrin binding; platelet-derived growth factor binding; proteoglycan binding;