

Recombinant Full Length Human COL5A1 Protein, GST-tagged

Cat. No. COL5A1-2166HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human COL5A1 full-length ORF (AAH08760, 1 a.a. - 591 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	591 amino acids
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. The encoded procollagen protein occurs commonly as the heterotrimer pro-alpha1(V)-pro-alpha1(V)-pro-alpha2(V). Mutations in this gene are associated with Ehlers-Danlos syndrome, types I and II. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, May 2013]
Molecular Mass	90.53 kDa
AA Sequence	MGPPGPPGPRGPSGAPGADGPQGGIGNPGAVGEKGEPGEAGEPGLPGE PPGPKGERGEKGESGPSGAAGPPGPKGPPGDDGPKGSPGPVGFPGDPGPPGEP GPAGQDGPPGDKGDDGEPGQTGSPGPTGEPGPSGPPGKRGP GPAGPEGRQGE

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KGAKGEAGLEGPPGKTGPIGPQGAPGKPGPDGLRGIPGPVGEQGLPGSPGPDGPP
 GPMGPPGLPGLKGDSPGPKGEKGHPGLIGLIGPPGEQGEKGDRGLPGPQGSSGPK
 GEQGITGPSGPIGPPGPPGLPGPPGPKGAKGSSGPTGPKGEAGHPGPPGPPGPPG
 EVIQPLPIQASRTRRNIDASQLDDGNGENYVDYADGMEEIFGSLNSLKLEIEQMKRP
 LGTQQNPARTCKDLQLCHPDFDPDGEYWVDPNQGCSRDSFKVYCNFTAGGSTCVF
 PDKKSEGARITSWPKENPGSWFSEFKRGKLLSYVDAEGNPVGVVQMTFLRLLSASA
 HQNVTYHCYQSWAWQDAATGSYDKALRFLGSNDEEMSYDNNPYIRALVDGCATKK
 GYQKTVLEIDTPKVEQVPIVDIMFNDGFGEASQKFGFEVGPACFMG

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

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

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mRNA Refseq	NM_000093
Protein Refseq	NP_000084
MIM	120215
UniProt ID	P20908

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