

Recombinant Full Length Human COL9A1 Protein, C-Flag-tagged

Cat. No. COL9A1-729HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human COL9A1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes one of the three alpha chains of type IX collagen, which is a minor (5-20%) collagen component of hyaline cartilage. Type IX collagen is usually found in tissues containing type II collagen, a fibrillar collagen. Studies in knockout mice have shown that synthesis of the alpha 1 chain is essential for assembly of type IX collagen molecules, a heterotrimeric molecule, and that lack of type IX collagen is associated with early onset osteoarthritis. Mutations in this gene are associated with osteoarthritis in humans, with multiple epiphyseal dysplasia, 6, a form of chondrodysplasia, and with Stickler syndrome, a disease characterized by ophthalmic, orofacial, articular, and auditory defects. Two transcript variants that encode different isoforms have been identified for this gene.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	89.1 kDa
AA Sequence	MKTCWKIPVFFFVCSFLEPWASAAVKRRPRFPVNSNSNGGNELCPKIRIGQDDLPG FDLISQFQVDKAAS RRAIQRVVGSATLQVAYKLGNNVDFRIPTRNLYPSGLPEEYSF

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LTTFRMTGSTLKKNNWNIWQIQDSSGKE QVGIKINGQTQSVVFSYKGLDGS LQTAAF
 SNLSSLFDSQWHKIMIGVERSSATLFVDCNRIESLPIKPRG PIDIDGFAVLGKLADNP
 QVSVPFELQWMLIHCDPLRPRRETCHelpARITPSQTtDERGPPGEQGPPGPP GP
 PGVPGIDGIDGRGPKGPPGPPGPAGEPGKPGAPGKPGTPGADGLTGPDGSPGSI
 GSKGQKGEPGVPG SRGFPGRGIPGPPGPPGTAGLPgelGRVGPVGDpGRRGPP
 GPPGPPGPRGTIGFHDGDPLCPNACPPGRS GYPGLPGMRGHKGAKGEIGEPGRQ
 GHKGEEDQGE LGEVGAQGP PGAQGLRGITGIVGDKGEKGARGLDG EPGPQGLP
 GAPGDQGGQRGPPGEAGPKGDRGAEGARGIPGLPGPKGDTGLPGVDGRDGIPGMP
 GTKGEPGK PGPPGDAGLQGLPGVPGIPGAKGVAGEKGSTGAPGKPGQMGNsGK
 PGQQGPPGEVGRGPQGLPGSRGEL GPVGSPLPGKLGSLGSPGLPGLPGPPGL
 PGMKGDRGVVGEPGPKGEQGASGEEGEAGERGELGDIGLPG PKGSAGNPGE PG
 LRGPEGSRLPGVEGPRGPPGPRGVQGEQGATGLPGVQGPPGRAPTDQHikQVC
 MRVI QEHFAEMAASLKRPDSGATGLPGRPGPPGPPGPPGENGFPGQMGI RGLPGI
 KGPPGALGLRGPKGDLGEK GERGPPGRGPNGLPGAIGLPGDPPASyGRNGRDG
 ERGPPGVAGIPGVPGPPGPPGLPGFCEPASCTMQA
 GQRAFNGKPDPTTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome

Full Length
Full L.

GENE INFORMATION

Gene Name COL9A1 collagen type IX alpha 1 chain [Homo sapiens (human)]

Official Symbol COL9A1

Synonyms MED; EDM6; STL4; DJ149L1.1.2

Gene ID 1297

mRNA Refseq NM_001851.6

Protein Refseq NP_001842.3

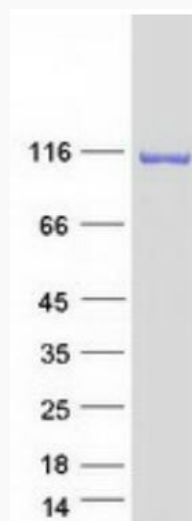
MIM 120210

UniProt ID P20849

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Coomassie blue staining of purified COL9A1 protein.

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