

Recombinant Human COL9A1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. COL9A1-4078H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	COL9A1 MS Standard C13 and N15-labeled recombinant protein (NP_001842) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	91.87 kDa
AA Sequence	MKTCWKIPVFFFVCSFLEPWASAAVKRRPRFPVNSNSNGGNELCPKIRIGQDDLPG FDLISQFQVDKAASRRAIQRRVGSATLQVAYKLGNNVDFRIPTRNLYPSGLPEEYSFL TTFRMTGSTLKKNNWNIWQIQDSSGKEQVGKINGQTQSVVFSYKGLDGLSLQTAAFS

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NLSSLFDSQWHKIMIGVERSSATLFVDCNRIESLPIKPRGPIDIDGFAVLGKLADNPQV
 SVPFELQWMLIHCDPLRPRRETCHELPARITPSQTTDERGPPGEQGGPPGPPGGV
 PGIDGIDGDRGPKGPPGPPGPAGEPGKPGAPGKPGTPGADGLTGPDGSPGSIGSK
 GQKGEPGVPGSRGFPGRGIPGPPGPPGTAGLPGELGRVGPVGDGPGRRGPPGPPG
 PPGPRGTIGFHDGDPLCPNACPPGRSGYPGLPGMRGHKGAKGEIGEPGRQGHKG
 EEGDQGEELGEVGAQGGPPGAQGLRGITGIVGDKGEKGARGLDGEPGPQGLPGAPG
 DQGQRGPPGEAGPKGDRGAEGARGIPGLPGPKGDTGLPGVDGRDGIPGMPGPKG
 EPGKPGPPGDAGLQGLPGVPGIPGAKGVAGEKGSTGAPGKPGQMGNSGKPGQQ
 GPPGEVGPGRGPQGLPGSRGELGPVGSPLPGKLGLSLGSPGLPGLPGPPGLPGMK
 GDRGVVGEPGPKGEQGASGEEGEAGERGELGDIGLPGPKGSAGNPGEPLRGPE
 GSRGLPGVEGPRGPPGPRGVQGEQGATGLPGVQGGPPGRAPTDQHIKQVCMRVIQ
 EHFAEMAASLKRPDSGATGLPGRPGPPGPPGPPGENGFPGQMGIKGLPGIKGPPG
 ALGLRGPKGDLGEKGERGPPGRGPNGLPGAIGLPDGPASYGRNGRDGERGPP
 GVAGIPGVPGPPGPPGLPGFCEPASCTMQAGQRAFNGKPDPTTRPLEQKLISEED
 LAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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

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Official Symbol	COL9A1
Synonyms	COL9A1; collagen, type IX, alpha 1; collagen alpha-1(IX) chain; alpha-1(IX) collagen chain; collagen IX, alpha-1 polypeptide; cartilage-specific short collagen; MED; EDM6; STL4; DJ149L1.1.2; FLJ40263;
Gene ID	1297
mRNA Refseq	NM_001851
Protein Refseq	NP_001842
MIM	120210
UniProt ID	P20849
SDS-PAGE	