

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

Cat. No. COL9A1-5853H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	COL9A1 MS Standard C13 and N15-labeled recombinant protein (NP_511040) 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	64.4 kDa
AA Sequence	MAWTARDRGALGLLLLGLCLCAAQRGPPGEQGPPGPPGPPGVPGIDGIDGDRGPK GPPGPPGPAGEPGKPGAPGKPGTPGADGLTGPDGSPGSIGSKGQKGEPGVPGSR GFPGRGIPGPPGPPGTAGLPGELGRVGPVGDPRRGPPGPPGPPGPRGTIGFHDG

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DPLCPNACPPGRSGYPGLPGMRGHKGAKGEIGEPGRQGHKGEEGDQGELGEVGA
 QGPPGAQGLRGITGIVGDKGEKGARGLDGEPGPQGLPGAPGDQGQRGPPGEAGP
 KGDRGAEGARGIPGLPGPKGDTGLPGVDGRDGIPGMPGPKGEPGKPGPPGDAGL
 QGLPGVPGIPGAKGVAGEKGSTGAPGKPGQMGNSGKPGQQGPPGEVGPGRGPQG
 LPGSRGELGPVGSPLPGKLGSLGSPGLPGLPGPPGLPGMKGDRGVVGEPPGPKG
 EQGASGEEGEAGERGELGDIGLPGPKGSAGNPGEPLRGPEGSRLPGVEGPRG
 PPGPRGVQGEQGATGLPGVQGPPGRAPTDQHIKQVCMRVIQEHFAEMAASLKRPD
 SGATGLPGRPGPPGPPGPPGENGFPQMGIKGLPGIKGPPGALGLRGPKGDLGEK
 GERGPPGRGPNGLPGAIGLPGDPGPASYGRNGRDGERGPPGVAGIPGVPGPPGP
 PGLPGFCEPASCTMQAGQRAFNKGPDPTRTRPLEQKLISEEDLAANDILDYKDDDD
 KV

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)]

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;

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EDM6; STL4; DJ149L1.1.2; FLJ40263;

Gene ID 1297**mRNA Refseq** NM_078485**Protein Refseq** NP_511040**MIM** 120210**UniProt ID** P20849 Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA