

Product datasheet for TP309473

Collagen IX (COL9A1) (NM_078485) Human Recombinant Protein

Product data:

| | |
|---------------------------------------|---|
| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human collagen, type IX, alpha 1 (COL9A1), transcript variant 2, 20 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC209473 protein sequence Red =Cloning site Green =Tags(s) |

MAWTARDRGALGLLLLGLCLCAAQRGPPGEGQPPGPPGPPGVPIDGIDGDRGPKGPPGPPGPPGAGEPGKP
GAPGKPGTPGADGLTGPDGSPGSIGSKGQKGEVPGVPSRGFPGRGIPGPPGPPGTTAGLPGELGRVGPVGD
PGRRGPPGPPGPPGPRGTIGFHDGDPLCPNACPPGRSGYPGLPGMRGHKGAKEIGEPRQGHKGEEDQ
GELGEVGAQPPGAQQLRGITGIVGDKGEKGARGLDGEVGPQGLPGAPGDQQRGPPGEAGPKGDRGAEG
ARGIPGLPGPKGDTGLPGVDGRDIPGMPGTKGEPGKPPGDAQLQGLPGVPGIPGAKGVAGEKSTGA
PGKPGQMGNSGKPGQQGPPGEVGPGRPQGLPGRGELGPVGSPLPGKLGSLGSPGLPGLPGPPGLPGMK
GDRGVVGEVGPKEQASGEEGEAGERGELGDIPLGPKGSAGNPGEPGLRGPESRGLPGVEGPRGPPG
PRGVQGEQATGLPGVQGPGRAPTDQHIKQVCMRVIQEHFAEMAASLKRPSGATGLPGRPGPPGPPG
PGENGFPGQMGIRGLPGIKGPPGALGLRGPKGDLGEKGERGPPGRGNPLPGAIGLPGDPGPASYGRNGR
DGERGPPGVAGIPGVPGPPGPPGLPGFCEPASCTMQAGQRAFNGKPPD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

| | |
|----------------|--|
| Tag: | C-Myc/DDK |
| Predicted MW: | 62 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| Preparation: | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage: | Store at -80°C. |



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Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_511040](#)

Locus ID: 1297

UniProt ID: [P20849](#)

RefSeq Size: 3073

Cytogenetics: 6q13

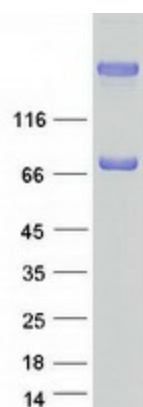
RefSeq ORF: 2034

Synonyms: DJ149L1.1.2; EDM6; MED; STL4

Summary: 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. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome

Product images:



Coomassie blue staining of purified COL9A1 protein (Cat# TP309473). The protein was produced from HEK293T cells transfected with COL9A1 cDNA clone (Cat# [RC209473]) using MegaTran 2.0 (Cat# [TT210002]).