

Product datasheet for TP318130

Collagen IX (COL9A1) (NM_001851) Human Recombinant Protein

Product data:

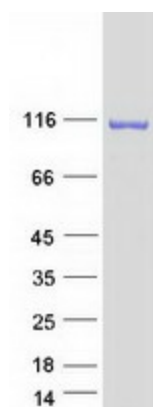
Product Type:	Recombinant Proteins
Description:	Recombinant protein of human collagen, type IX, alpha 1 (COL9A1), transcript variant 1, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC218130 representing NM_001851 Red=Cloning site Green=Tags(s) <p>MKTCWKIPVFFFVCSFLEPWASAAVKRRRPRFPVNSNSNGGNELCPKIRIGQDDLPGFDLISQFQVDKAAS RRAIQRVWGSATLQVAYKLGNNVDFRIPTRNLYPSGLPEEYSFLTFRMTGSTLKKNNIWIQIDSSGKE QVGIKINGQTQSVVFSYKGLDGSLLQTAAFSNLSSLFDSQWHKIMIGVERSSATLFVDCNRIESLPIKPRG PIDIDGFAVLGKLDADNPQVSPFELQWMLIHCDPLRPRRETCHHELPARITPSQTDERGPPGEQGGPPGPP GPPGVPIDGIDGDRGPKGPPGPPGAPGPKGAPGKPGTGPADGLTGPDGSPGSIGSKGQKGEVGPV SRGFPGRGIPGPPGPPGTAGLPGELGRVGPVGDGRRGPPGPPGPPGPRGTIGFHDGDPLCPNACPPGRS GYPLPGMRGHKAKGEIGEPGRQGHKGEEGDQGEVGAQGGPPGAQGLRGITGIVGDKGEKGARGLDG EPGPQGLPGAPGDQQRGPPGEAGPKGDRGAEGARGIPGLPGPKGDTGLPGVDGRDGIPGMPGKTEGPK PGPPGDAGLQGLPGVPGIPGAKGVAGEKGSTGAPGKPGQMGNSGKPGQQGPPGEVGPGRGPQGLPGRGEL GPVGSPLPGKLGSLGSPGLPGLPGLPGLPMKGDGRVVGEPGPKGEQGASGEEGEAGERGELGDIPLPG PKGSAGNPGEPGLRGPEGSRLPGVEGPRGPPGPRGVQGEQATGLPGVQGGPPGRAPTDQHIKQVCMRVI QEHFAEMAASLKRPDGATGLPGRGPPGPPGPPGENGFPGQMIRGLPGIKGPPGALGLRGPKGDLEGEK GERGPPGRGNLPGAIPLGDPGPASYGRNDRDGERGPPGVAGIPGVGPPGPPGLPGFCEPASCTMQA GQRAFNGKPD</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Tag:	C-Myc/DDK
Predicted MW:	89.1 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.



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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.
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_001842
Locus ID:	1297
UniProt ID:	P20849
RefSeq Size:	3704
Cytogenetics:	6q13
RefSeq ORF:	2763
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# TP318130). The protein was produced from HEK293T cells transfected with COL9A1 cDNA clone (Cat# [RC218130]) using MegaTran 2.0 (Cat# [TT210002]).