

Recombinant Human COL9A1 Protein, MYC/DDK-tagged

Cat. No. COL9A1-3298H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human COL9A1 protein, fused to MYC/DDK-tagged at C-terminus, was expressed in HEK293.
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
Form	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	89.1 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method

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GENE INFORMATION

Gene Name	COL9A1 collagen, type IX, alpha 1 [Homo sapiens]
Official Symbol	COL9A1
Synonyms	DJ149L1.1.2; EDM6; MED; STL4
Gene ID	1297
mRNA Refseq	NM_001851
Protein Refseq	NP_001842
MIM	120210
UniProt ID	P20849

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