

## Product datasheet for PH309473

### Collagen IX (COL9A1) (NM\_078485) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	COL9A1 MS Standard C13 and N15-labeled recombinant protein (NP_511040)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC209473
Predicted MW:	64.4 kDa
Protein Sequence:	>RC209473 protein sequence Red=Cloning site Green=Tags(s)

MAWTARDRGALGLLLLGLCLCAAQRGPPGEQPPGPPGPPGVPGIDGIDGDRGPKGPPGPPGAGEPGKP  
GAPGKPGTPGADGLTGPDGSPGSIKSKGQKGEVPGSRGFPGRGIPGPPGPGTAPGLPGLGRVGPVGD  
PGRRGPPGPPGPPGPRGTIGFHDGDPLCPNACPPGRSGYPGLPGRGKHKGAKGEIGEPGRQGHKGEEGDQ  
GELGEVGAQGGPPGAQGLRGITGIVGDKGEKGARGLDGEPPGQGLPGAPGDQGRGPPGEAGPKGDRGAE  
ARGIPGLPGPKGDTGLPGVDGRDIPGMPGKGEKGGPPGDAGLQGLPGVPGIPGAKGVAGEKSTGA  
PGKPGQMGNSGKPGQQGPPGEVGRGPPGQGLPGSRGELGPVSPGLPGKLSLSPGLPGLPGLPGLPMK  
GDRGVVGEPPGKGEQASGEEGEAGERGELDGLGLPGPKGSAGNPGEPLRGPEGSRGLPGVEGPRGPPG  
PRGVQGEQATGLPGVQGGPPGRAPTDQHIKQVCMRVIQEHFAEMAASLKRPSGATGLPGRGPPGPPGP  
PGENGFPGQMGIRGLPGIKGPPGALGLRGPKGDLGKGERGPPGRGNLPGAIGLPGDPGPASVGRNDR  
DGERGPPGVAGIPGVGPPGPPGLPGFCEPASCTMQAQRAFNGKPPD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u><a href="#">NP_511040</a></u>
RefSeq Size:	3073



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RefSeq ORF: 2034

Synonyms: DJ149L1.1.2; EDM6; MED; STL4

Locus ID: 1297

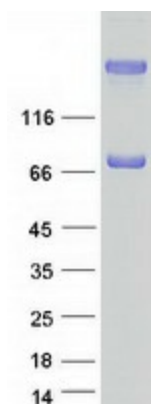
UniProt ID: [P20849](#)

Cytogenetics: 6q13

**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]).