

Product datasheet for PH318130

Collagen IX (COL9A1) (NM_001851) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	COL9A1 MS Standard C13 and N15-labeled recombinant protein (NP_001842)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC218130
Predicted MW:	91.87 kDa
Protein Sequence:	>RC218130 representing NM_001851 Red=Cloning site Green=Tags(s)

MKTCWKIPVFFVCSFLEPWASAAVKRRPRFPVNSNSNGNELCPKIRIGQDDLPGFDLISQFQVDKAAS
RRAIQRVVGSATLQVAYKLGNNVDFRIPTRNLYPSSLPEEYSFLTTFRMTGSTLKKNNWIWQIQDSSGKE
QVGIKINGQTQSVVFSYKGLDGLQTAAFNLSSLFDSQWHKIMIGVERSSATLFVDCNRIESLPIKPRG
PIDIDGFVAVLGLADNPQVSVFELQWMLIHCDPLRPRRETCHELPARITPSQTTDERGPPGEQGGPPGPP
GPPGVPGIDGIDGDRGPKGPPGPPGAGEPGKPGAPGKPGTADGLTDPDGSPGSIKSGKQKGEVPGVPG
SRGFPGRIGPVPVGGTGLPGLGRVGPVGDPRRRGPPGPPGPPGRTIGFHDGDLCPNACPPGRS
GYPLPGMRHGKAKGEIGEPGRQGHKGEEDQGEVGAQGGPPGAQGLRGITGIVGDKGEKGARGLDG
EPGPQGLPGAPGDQQRGPPGEAGPKGDRGAEGARGIPGLPGPKGDTGLPGVDGRDGIPIGMPGTKEGPK
PGPPGDAGLQGLPGVPGIPGAKGVAGEKSTGAPGKPGQMGNSGKPGQQGPPGEVGRPGQLPGSRGEL
GPVGSPLPGKLGSLGSPGLPGLPGPPGLPGMKGDRGVVGEVGPKEQASGEEGAEGERGELGDIPLPG
PKGSAGNPGEPLRGPEGSRLPGVEGPRGPPGPRGVQGEQATGLPGVQGGPRAPTDQHIKQVCMRVI
QEHFAEMAASLKRPDGATGLPGRPGPPGPPGPPGENGFPGQMGIRGLPGIKGPPGALGLRGPKGDLGEK
GERGPPGRGNLPGAIGLPGDPGPASVYGRNDRGERGPPGVAGIPVPGPPGPPGLPGFCEPASCTMQA
GQRAFNGPDP

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

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.



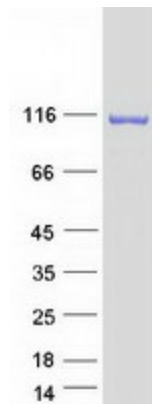
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RefSeq:	NP_001842
RefSeq Size:	3704
RefSeq ORF:	2763
Synonyms:	DJ149L1.1.2; EDM6; MED; STL4
Locus ID:	1297
UniProt ID:	P20849
Cytogenetics:	6q13

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# [TP318130]). The protein was produced from HEK293T cells transfected with COL9A1 cDNA clone (Cat# [RC218130]) using MegaTran 2.0 (Cat# [TT210002]).