

Recombinant Human COL6A1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. COL6A1-4930H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	COL6A1 MS Standard C13 and N15-labeled recombinant protein (NP_001839) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The collagens are a superfamily of proteins that play a role in maintaining the integrity of various tissues. Collagens are extracellular matrix proteins and have a triple-helical domain as their common structural element. Collagen VI is a major structural component of microfibrils. The basic structural unit of collagen VI is a heterotrimer of the alpha1(VI), alpha2(VI), and alpha3(VI) chains. The alpha2(VI) and alpha3(VI) chains are encoded by the COL6A2 and COL6A3 genes, respectively. The protein encoded by this gene is the alpha 1 subunit of type VI collagen (alpha1(VI) chain). Mutations in the genes that code for the collagen VI subunits result in the autosomal dominant disorder, Bethlem myopathy.
Molecular Mass	108.5 kDa
AA Sequence	MRAARALLPLLLQACWTAAQDEPETPRAVAFQDCPVDLFFVLDTSESVALRLKPYG ALVDKVKSF TKRFIDNLRDRYYRCDRNLVWNAGALHYSDEVEIIQGLTRMPGGRDAL KSSVDAVKYFGKGT YTDCAIKKGLEQLLVGGSHLKENKYLIVVTDGHPLEGYKEPCG GLED AVNEAKHLGVKVFSAITPDHLEPRLSIIATDHTYRRNFTAADWGQSRDAEEAI

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SQTIDTIVDMIKNNVEQVCCSFECQPARGPPGLRGDPGFEGERGKPGLPGEKGEAG
 DPGRPGDLGPVGYQGMKGEKGSERGEKSGRGPKGKYGKGEKGKRGIDGVDGVKGEM
 GYPGLPGCKGSPGFDGIQPPGPKGDPGAFGLKGEKGEPGADGEAGRPSSGPS
 GDEGQPGEPGPPGEKGEAGDEGNPGPDGAPGERGGPGERGPRGTPGTRGPRGD
 PGEAGPQGDQGREGPVGVPGDPGEAGPIGPKGYRGDEGPPGSEGARGAPGPAG
 PPGDPGLMGERGEDGPAGNGTEGFPFGYPGNRGAPGINGTKGYPLKGDEGE
 AGDPGDDNNDIAPRGVKGAKGYRGPEGPQGPFGHQPPGPDECEILDIIIMKMCSC
 CECKCGPIDLLFVLDSSSIGLQNFIEIAKDFVVKVIDRLSRDELVKFEPGQSYAGVVQ
 YSHSQMQEHVSLRSPSIRNVQELKEAIKSLQWMAGGTFTGEALQYTRDQLLPPSPN
 NRIALVITDGRSDTQRDTTPLNVLCSPGIQVSVGIKDVDFIPGSDQLNVISCQGLAP
 SQGRPGLSLVKENYAELLEDAFLKNVTAQICIDKKCPDYTCPITFSSPADITILLDGS
 SVGSHNFDTTKRFAKRLAERFLTAGRTDPAHDVRVAVVQYSGTGQQRPERASLQFL
 QNYTALASAVDAMDFINDATDVNDALGYVTRFYREASSGAKKRLLLFSDGNSQGA
 TPAAIEKAVQEAQRAGIEIFVVVGRQVNEPHIRVLVTGKTAEYDVAYGESHLFRVPS
 YQALLRGVFHQTVSRKVALGTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name COL6A1 collagen type VI alpha 1 chain [Homo sapiens (human)]

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Official Symbol	COL6A1
Synonyms	COL6A1; collagen, type VI, alpha 1; collagen alpha-1(VI) chain; alpha 1 (VI) chain (61 AA); collagen VI, alpha-1 polypeptide; OPLL;
Gene ID	1291
mRNA Refseq	NM_001848
Protein Refseq	NP_001839
MIM	120220
UniProt ID	P12109
SDS-PAGE	