

Product datasheet for PH308562

Collagen VI (COL6A1) (NM_001848) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	COL6A1 MS Standard C13 and N15-labeled recombinant protein (NP_001839)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC208562
Predicted MW:	108.5 kDa
Protein Sequence:	>RC208562 protein sequence Red=Cloning site Green=Tags(s)

MRAARALLPLLLQACWTAQDEPETPRAVAFQDCPVDLFFVLDTSESVALRLKPYGALVVKVKSFTKRFI
DNLDRYYRCDRNLVWNAGALHYSDEVEIIQGLTRMPGGRDALKSSVDAVKYFGKGYTDCAIKKGLEQL
LVGGSHLKENKYLIVVTDGHPLEGYKEPCGGLEDVNEAKHLGVKVFVAITPDHLEPRLSIIATDHTYR
RNFTAADWQSRDAEEAISQTIDTIVDMIKNNVEQVCCSFECQPARGPPGLRGDPGFEGERGKPGLPGEK
GEAGDPGRPGDLGPVGYQGMKGEKGSRGPKGYKGEKGRGIDGVDGVKGEMGYPLPGCKGSPG
FDGIQGGPPGKGDPAFGLKGEKGEADGEAGRPSSGSGDEGQPGEPGPPGEKGEAGDEGNPDPGA
PGERGGPGERGPRGTPGTRGPRGDPGEAGPQDQGREPVGVPDGEAGPIGPKGYRGDEGPPGSEGAR
GAPGAPGPPGDPGLMGERGEDGPAAGNGTEGFPGFPGYPGNRGAINGTKGYPLKGDEGEAGDPGDDNN
DIAPRGVKGAKGYRPEGPQGGPHQGGPPGDECEILDIIIMKMSCCECKCGPIDLLFVLDSSEISGLQN
FEIAKDFVVKVIDRLSRDELVKFEPGQSYAGVVQYSHSQMHEVSLRSPSIRNVQELKEAIKSLQWMAGG
TFTGEALQYTRDQLLPPSPNNRIALVITDGRSDTQRDTPNLNVLCSPIQVVSVGIKDVFDFIPGSDQLN
VISCQGLAPSQGRPGLSLVKENYAELEDAFLKNVTAQICIDKKCPDYTCPIITFSSPADITILLDGSASV
GSHNFDTTKRFAKRLAERFLTAGRTPAHDRVAVVQYSGTGQQRPERASLQFLQNYTALASAVDAMDFI
NDATDVNDALGYVTRFYREASSGAAKRLLLFSDGNSQGATPAAIEKAVQEAQRAGIEIFVVVVGRQVNE
PHIRVLVTGKTAEYDVAYGESHLFRVPSYQALLRGVHFHQTVSRKVALG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

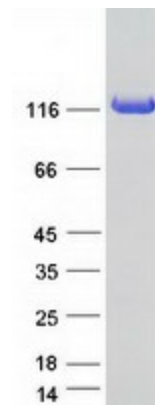
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.



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Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_001839
RefSeq Size:	4246
RefSeq ORF:	3084
Synonyms:	BTHLM1; OPLL; UCHMD1
Locus ID:	1291
UniProt ID:	P12109 , A0A384P5H7
Cytogenetics:	21q22.3
Summary:	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. [provided by RefSeq, Jul 2008]
Protein Pathways:	ECM-receptor interaction, Focal adhesion

Product images:



Coomassie blue staining of purified COL6A1 protein (Cat# [TP308562]). The protein was produced from HEK293T cells transfected with COL6A1 cDNA clone (Cat# [RC208562]) using MegaTran 2.0 (Cat# [TT210002]).