Recombinant Full Length Human COL7A1 Protein, C-Flag-tagged

Cat. No. COL7A1-1006HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human COL7A1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes the alpha chain of type VII collagen. The type VII collagen fibril, composed of three identical alpha collagen chains, is restricted to the basement zone beneath stratified squamous epithelia. It functions as an anchoring fibril between the external epithelia and the underlying stroma. Mutations in this gene are associated with all forms of dystrophic epidermolysis bullosa. In the absence of mutations, however, an acquired form of this disease can result from an autoimmune response made to type VII collagen.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	295.22 kDa
AA Sequence	MTLRLLVAALCAGILAEAPRVRAQHRERVTCTRLYAADIVFLLDGSSSIGRSNFREVR SFLEGLVLPFSG AASAQGVRFATVQYSDDPRTEFGLDALGSGGDVIRAIRELSYKG GNTRTGAAILHVADHVFLPQLARPGV PKVCILITDGKSQDLVDTAAQRLKGQGVKLF AVGIKNADPEELKRVASQPTSDFFFFVNDFSILRTLLPL VSRRVCTTAGGVPVTRPP DDSTSAPRDLVLSEPSSQSLRVQWTAASGPVTGYKVQYTPLTGLGQPLPSER QEV

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NVPAGETSVRLRGLRPLTEYQVTVIALYANSIGEAVSGTARTTALEGPELTIQNTTAH
SLLVAWRSV PGATGYRVTWRVLSGGPTQQQELGPGQGSVLLRDLEPGTDYEVTV
STLFGRSVGPATSLMARTDASVEQT LRPVILGPTSILLSWNLVPEARGYRLEWRRET
GLEPPQKVVLPSDVTRYQLDGLQPGTEYRLTLYTLLEG HEVATPATVVPTGPELPV
SPVTDLQATELPGQRVRVSWSPVPGATQYRIIVRSTQGVERTLVLPGSQTAF DLDD
VQAGLSYTVRVSARVGPREGSASVLTVRREPETPLAVPGLRVVVSDATRVRVAWG
PVPGASGFRIS WSTGSGPESSQTLPPDSTATDITGLQPGTTYQVAVSVLRGREEGP
AAVIVARTDPLGPVRTVHVTQASSS SVTITWTRVPGATGYRVSWHSAHGPEKSQLV
SGEATVAELDGLEPDTEYTVHVRAHVAGVDGPPASVVVR TAPEPVGRVSRLQILNA
SSDVLRITWVGVTGATAYRLAWGRSEGGPMRHQILPGNTDSAEIRGLEGGVSY SV
RVTALVGDREGTPVSIVVTTPPEAPPALGTLHVVQRGEHSLRLRWEPVPRAQGFLL
HWQPEGGQEQSR VLGPELSSYHLDGLEPATQYRVRLSVLGPAGEGPSAEVTARTE
SPRVPSIELRVVDTSIDSVTLAWTPVS RASSYILSWRPLRGPGQEVPGSPQTLPGIS
SSQRVTGLEPGVSYIFSLTPVLDGVRGPEASVTQTPVCPR GLADVVFLPHATQDNA
HRAEATRRVLERLVLALGPLGPQAVQVGLLSYSHRPSPLFPLNGSHDLGIILQR IRD
MPYMDPSGNNLGTAVVTAHRYMLAPDAPGRRQHVPGVMVLLVDEPLRGDIFSPIRE
AQASGLNVVML GMAGADPEQLRRLAPGMDSVQTFFAVDDGPSLDQAVSGLATAL
CQASFTTQPRPEPCPVYCPKGQKGEPG EMGLRGQVGPPGDPGLPGRTGAPGPQ
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RGPRGPKGEPGAPGQVIGGEGPGLPGRKGDPGPSGPPGPRGPLGDPGPRGPPGL
PGTAMKG DKGDRGERGPPGPGEGGIAPGEPGLPGLPGSPGPQGPVGPPGKKGE
KGDSEDGAPGLPGQPGSPGEQGPR GPPGAIGPKGDRGFPGPLGEAGEKGERGP
PGPAGSRGLPGVAGRPGAKGPEGPPGPTGRQGEKGEPGRPG DPAVVGPAVAGP
KGEKGDVGPAGPRGATGVQGERGPPGLVLPGDPGPKGDPGDRGPIGLTGRAGPP
GDSG PPGEKGDPGRPGPPGPVGPRGRDGEVGEKGDEGPPGDPGLPGKAGERGL
RGAPGVRGPVGEKGDQGDPGE DGRNGSPGSSGPKGDRGEPGPPGPPGRLVDT
GPGAREKGEPGDRGQEGPRGPKGDPGLPGAPGERGIEGF RGPPGPQGDPGVRG
PAGEKGDRGPPGLDGRSGLDGKPGAAGPSGPNGAAGKAGDPGRDGLPGLRGEQ
GLP GPSGPPGLPGKPGEDGKPGLNGKNGEPGDPGEDGRKGEKGDSGASGREGR
DGPKGERGAPGILGPQGPPG LPGPVGPPGQGFPGVPGGTGPKGDRGETGSKGE

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	QGLPGERGLRGEPGSVPNVDRLLETAGIKASALREIV ETWDESSGSFLPVPERRRG PKGDSGEQGPPGKEGPIGFPGERGLKGDRGDPGPQGPPGLALGERGPPGPS GLA GEPGKPGIPGLPGRAGGVGEAGRPGERGERGEKGERGEQGRDGPPGLPGTPGPP GPPGPKVSVDEPG PGLSGEQGPPGLKGAKGEPGSNGDQGPKGDRGVPGIKGDR GEPGPRGQDGNPGLPGERGMAGPEGKPGLQ GPRGPPGPVGGHGDPGPPGAPG LAGPAGPQGPSGLKGEPGETGPPGRGLTGPTGAVGLPGPPGPSGLVGP QGSPGL PGQVGETGKPGAPGRDGASGKDGDRGSPGVPGSPGLPGPVGPKGEPGPTGAPG QAVVGLPGAKG EKGAPGGLAGDLVGEPGAKGDRGLPGPRGEKGEAGRAGEPGD PGEDGQKGAPGPKGFKGDPGVGVPGSPG PPGPPGVKGDLGLPGLPGAPGVVGF PGQTGPRGEMGQPGPSGERGLAGPPGREGIPGPLGPPGPPGSVGP PGASGLKG DKGDPGVGLPGPRGERGEPGIRGEDGRPGQEGPRGLTGPPGSRGERGEKGDVG SAGLKGDKG DSAVILGPPGPRGAKGDMGERGPRGLDGDKGPRGDNGDPGDKGS KGEPGDKGSAGLPGLRGLLGPQGQPG AAGIPGDPGSPGKDGVPGIRGEKGDVGF MGPRGLKGERGVKGACGLDGEKGDKGEAGPPGRPGLAGHKGE MGEPGVPGQS GAPGKEGLIGPKGDRGFDGQPGPKGDQGEKGERGTPGIGGFPGPSGNDGSAGPP GPPGSV GPRGPEGLQGQKGERGPPGERVVGAPGVPGAPGERGEQGRPGPAGP RGEKGEAALTEDDIRGFVRQEMSQ HCACQGQFIASGSRPLPSYAADTAGSQLHAV PVLRVSHAEEEERVPPEDDEYSEYSEYSVEEYQDPEAPW DSDDPCSLPLDEGSCT AYTLRWYHRAVTGSTEACHPFVYGGCGGNANRFGTREACERRCPPRVVQSQGTG TAQDTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.

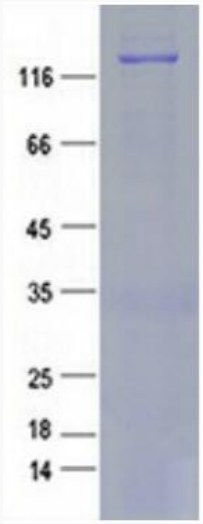
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Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Full Length	Full L.

GENE INFORMATION

Gene Name	COL7A1 collagen type VII alpha 1 chain [Homo sapiens (human)]
Official Symbol	COL7A1
Synonyms	EBD1; EBR1; EBDCT; NDNC8
Gene ID	1294
mRNA Refseq	NM_000094.4
Protein Refseq	NP_000085.1
MIM	120120
UniProt ID	Q02388

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Purified recombinant protein COL7A1 was analyzed by SDS-PAGE gel and Coomossie Blue Staining.

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