Recombinant Human COL1A1 protein

Cat. No. COL1A1-71H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human collagen-I CBF8 domain cDNA fragment (26 - 542 aa) fused with N-terminal fusion of human VTN (61-398aa) was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	26-542 a.a.
Form	0.5 mg/ml, sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, arginine, DTT and Glycerol.
AA Sequence	MTRGDVFTMPEDEYTVYDDGEEKNNATVHEQVGGPSLTSDLQAQSKGNPEQTPVL KPEEEAPAPEVGASKPEGID SRPETLHPGRPQPPAEEELCSGKPFDAFTDLKNGSL FAFRGQYCYELDEKAVRPGYPKLIRDVWGIEGPIDAAFT RINCQGKTYLFKGSQYW RFEDGVLDPDYPRNISDGFDGIPDNVDAALALPAHSYSGRERVYFFKGKQYWEYQF QH QPSQEECEGSSLSAVFEHFAMMQRDSWEDIFELLFWGRTSAGTRQPQFISRD WHGVPGQVDAAMAGRIYISGMAP RPSLAKKQRFRHRNRKGYRSQRGHSRGRNQ NSRRPSRGGGGSGGGGSNIEFGPAGPPGRDGIPGQPGLPGPPGPP GPPGPPGLG GNFAPQLSYGYDEKSTGGISVPGPMGPSGPRGLPGPPGAPGPQGFQGPPGEPGE PGASGPMGPRGP PGPPGKNGDDGEAGKPGRPGERGPPGPQGARGLPGTAGLPG MKGHRGFSGLDGAKGDAGPAGPKGEPGSPGENGA PGQMGPRGLPGERGRPGA PGPAGARGNDGATGAAGPPGPTGPAGPPGFPGAVGAKGEAGPQGPRGSEGPQG VRGE PGPPGPAGAAGPAGNPGADGQPGAKGANGA

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Purity	>90% by SDS-PAGE
Applications	1. May be used for in vitro human hepatocytes differentiation ascoating matrix protein.2. May be used as culture matrix protein for long term liver cells cultivation in vitro.
Storage	Keep at -80centigrade for long term storage. Product is stable at 4 centigrade for at least 30 days.

GENE INFORMATION

Gene Name	COL1A1 collagen, type I, alpha 1 [Homo sapiens]
Official Symbol	COL1A1
Synonyms	COL1A1; collagen, type I, alpha 1; collagen alpha-1(I) chain; OI4; alpha-1 type I collagen; pro-alpha-1 collagen type 1; collagen alpha 1 chain type I; collagen alpha-1(I) chain preproprotein; collagen of skin, tendon and bone, alpha-1 chain;
Gene ID	1277
mRNA Refseq	NM_000088
Protein Refseq	NP_000079
MIM	
UniProt ID	P02452
Chromosome Location	17q21.33

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Pathway	Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Axon guidance, organism-specific biosystem; Cell surface interactions at the vascular wall, organism-specific biosystem; Developmental Biology, organism-specific biosystem; ECM-receptor interaction, organism-specific biosystem; ECM-receptor interaction, conserved biosystem;
Function	extracellular matrix structural constituent; identical protein binding; platelet-derived growth factor binding; protein binding;

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