Recombinant Human COL1A1 Protein (Gln300-Asp744), N-His tagged

Cat. No. COL1A1-12H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Human collagen, type I, alpha 1 (COL1A1), with N-terminal His tag, secretory expressed in HEK293 cells.
Species	Human
Source	HEK293
ProteinLength	Gln300-Asp744
Description	This gene encodes the pro-alpha1 chains of type I collagen whose triple helix comprises two alpha1 chains and one alpha2 chain. Type I is a fibril-forming collagen found in most connective tissues and is abundant in bone, cornea, dermis and tendon. Mutations in this gene are associated with osteogenesis imperfecta types I-IV, Ehlers-Danlos syndrome type VIIA, Ehlers-Danlos syndrome Classical type, Caffey Disease and idiopathic osteoporosis. Reciprocal translocations between chromosomes 17 and 22, where this gene and the gene for platelet-derived growth factor beta are located, are associated with a particular type of skin tumor called dermatofibrosarcoma protuberans, resulting from unregulated expression of the growth factor. Two transcripts, resulting from the use of alternate polyadenylation signals, have been identified for this gene.
Molecular Mass	40.8 kDa
Purity	> 90% as determined by SDS-PAGE and Coomassie blue staining

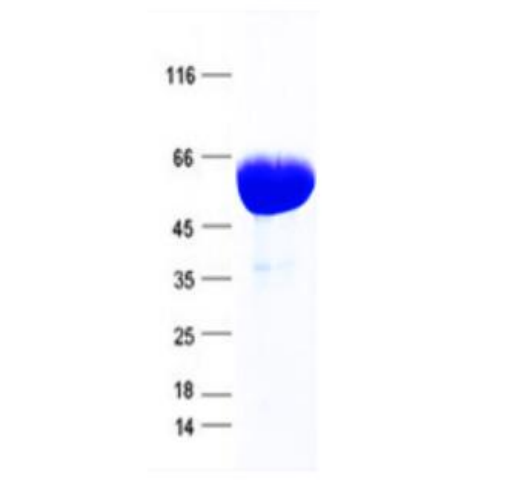
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Applications	Cell culture: For culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
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 μg/mL as determined by microplate BCA method
Storage Buffer	PBS, pH 7.4, 10% glycerol

GENE INFORMATION

Gene Name	COL1A1 collagen type I alpha 1 chain [Homo sapiens (human)]
Official Symbol	COL1A1
Synonyms	COL1A1; collagen type I alpha 1 chain; OI1; OI2; OI3; OI4; EDSC; CAFYD; EDSARTH1; collagen alpha-1(I) chain; alpha-1 type I collagen; alpha1(I) procollagen; collagen alpha 1 chain type I; collagen alpha-1(I) chain preproprotein; collagen of skin, tendon and bone, alpha-1 chain; collagen, type I, alpha 1; pro-alpha-1 collagen type 1; type I proalpha 1; type I procollagen alpha 1 chain
Gene ID	1277
mRNA Refseq	NM_000088
Protein Refseq	NP_000079
MIM	120150

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

UniProt ID	P02452
SDS-PAGE	

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA