

Recombinant Human COL3A1 protein, His & GST-tagged

Cat. No. COL3A1-7927H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human COL3A1 aa. (Gly1059~Leu1466 (Accession # P02461)) fused with N-terminal His & GST tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Gly1059~Leu1466
Description	This gene encodes the pro-alpha1 chains of type III collagen, a fibrillar collagen that is found in extensible connective tissues such as skin, lung, uterus, intestine and the vascular system, frequently in association with type I collagen. Mutations in this gene are associated with Ehlers-Danlos syndrome types IV, and with aortic and arterial aneurysms. Two transcripts, resulting from the use of alternate polyadenylation signals, have been identified for this gene.
Form	Freeze-dried powder
Molecular Mass	68 kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%
Characteristic	The isoelectric point is 6.6.

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Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as liquid form in Phosphate buffered saline(PBS), pH 7.4.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	COL3A1 collagen type III alpha 1 chain [Homo sapiens (human)]
Official Symbol	COL3A1
Synonyms	COL3A1; collagen type III alpha 1 chain; EDS4A; collagen alpha-1(III) chain; Ehlers-Danlos syndrome type IV, autosomal dominant; alpha-1 type III collagen; alpha1 (III) collagen; collagen, fetal; collagen, type III, alpha 1
Gene ID	1281
mRNA Refseq	NM_000090.3
Protein Refseq	NP_000081.1

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UniProt ID

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