

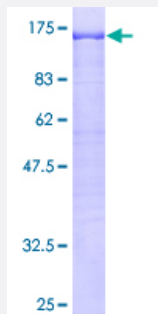
Full-Length

COL3A1 (Human) Recombinant Protein (P01)

Catalog # H00001281-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human COL3A1 full-length ORF (AAH28178, 25 a.a. - 1163 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

QEAVEGGCSHLGQSYADRDVWKPEPCQICVCDSGSVLCDDIICDDQELDCPNPEIPFGECCAV
CPQPPTAPTRPPNGQGPQGPKGDPGPPGIPGRNGDPGIPGQPGSPGSPGPPGICESCPTGPQN
YSPQYDSYDVKSGVAVGGLAGYPGPAGPPGPPGPGTSGHPGSPGSPGYQGPPGEPGQAGPS
GPPGPPGAIGPSGPAGKDGESGRPGRGERGLPGPPGIKGPAGIPGFPGMKGHRGFDGRNGEK
GETGAPGLKGENGLPGENGAPGPMGPRGAPGERGRPLPGAAGARGNDGARGSDGQPGPPG
PPGTAGFPGSPGAKGEVGPAGSPGSNGAPGQRGEPGPQGHAGAQQGPPGPPGINGSPGGKGE
MPAGIPGAPGLMGARGPPGPAGANGAPGLRGGAGEPGKNGAKGEPGPRGERGEAGIPGVPG
AKGEDGKDGSPGEPGANGLPGAAGERGAPGFRGPAGPNGIPGEKGPAGERGAPGPAGPRGA
AGEPGRDGVPGGPGMRGMPGSPGGPGSDGKPGPPGSQGESGRPGPPGPSGPRGQPGVMGF
PGPKGNDGAPGKNGERGGPGGPGPQGPNGETGPQGPPTGPGGDKGDTGPPGPQGL
QGLPGTGGPPGENGKPGEPGPKGDAGAPGAGGKGDAGAPGERGPPGLAGAPGLRGGAGPP
GPEGGKGAAGPPGPPGAAGTPGLQGMPGERGGLGSPGPKGDKGEPGGPGADGVPGKDGPR
GPTGPIGPPGPAGQPGDKGEGGAPGLPGIAGPRGSPGERGETGPPGPAGFPAGPQNGEPGG
KGERGAPGEKGEGGPPGVAGPPGKDGTSHPGPIGPPGPRGNRGERGSEGSPGHPGQPGPP
GPPGAPGPCCGGVGAAAAIAGIGGEKAGGFAPYYGDEPMDFKINTDEIMTSLKSVNGQIESLISPDG
SRKNPARNCRDLKFCHPELKSGEYWVDPNQGCKLDAIKVFCNMETGETCISANPLNVPRKHWW
TDSSAEKKHVWFGESMDGGFQFSYGNPELPEDVLDVQLAFLRLSSRASQNITYHCKNSIAYMD
QASGNVKKALKLMGSNEGEFKAEGNSKFTYTVLEDGCTKHTGEWSKTVFEYRTRKAVRLPVDIA
PYDIGGPDQEFGVDVGPVCFL

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)	151.03
Interspecies Antigen Sequence	Mouse (91); Rat (90)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — COL3A1

Entrez GeneID	1281
GeneBank Accession#	BC028178
Protein Accession#	AAH28178
Gene Name	COL3A1
Gene Alias	EDS4A, FLJ34534
Gene Description	collagen, type III, alpha 1
Omim ID	120180 130020 130050
Gene Ontology	Hyperlink

Gene Summary

This gene encodes the pro- $\alpha 1$ 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. [provided by R. Dalgleish]

Other Designations

Ehlers-Danlos syndrome type IV, autosomal dominant| $\alpha 1$ (III) collagen|collagen type III $\alpha 1$ |collagen, fetal

Pathway

- [ECM-receptor interaction](#)
- [Focal adhesion](#)

Disease

- [Aneurysm](#)
- [Angina](#)
- [Aortic Aneurysm](#)
- [Aortic Rupture](#)
- [Cardiovascular Diseases](#)
- [Chorioamnionitis](#)
- [Connective Tissue Diseases](#)
- [Coronary Disease](#)
- [Cystocele](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Fetal Diseases](#)
- [Fetal Membranes](#)
- [Gastroesophageal Reflux](#)
- [Genetic Predisposition to Disease](#)

- [Hemorrhage](#)
- [Hepatitis B](#)
- [Hernia](#)
- [Infection](#)
- [Inflammation](#)
- [Intervertebral Disk Displacement](#)
- [Intracranial Aneurysm](#)
- [Kidney Failure](#)
- [Liver Cirrhosis](#)
- [Marfan syndrome](#)
- [Metabolic Syndrome X](#)
- [Mitral Valve Prolapse](#)
- [Musculoskeletal Diseases](#)
- [Myocardial Infarction](#)
- [Myocardial Ischemia](#)
- [Obstetric Labor](#)
- [Pre-Eclampsia](#)
- [Pregnancy Complications](#)
- [Premature Birth](#)
- [Rectal Prolapse](#)
- [Renal Insufficiency](#)
- [Skin Diseases](#)
- [Vertebral Artery Dissection](#)
- [Werner syndrome](#)