

Collagen Type I Alpha 1 Recombinant Protein | COL1a1 recombinant protein

Recombinant Collagen Type I Alpha 1 (COL1a1)

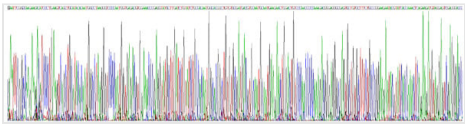
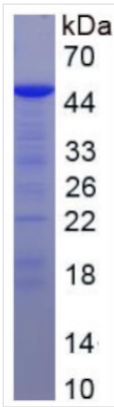
CATALOG # AAA150200	HOST E.coli	REACTIVITY Mus musculus (Mouse)	APPLICATIONS Western Blot, SDS-Page
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PRODUCT SYNONYMS

Collagen Type I Alpha 1; Recombinant Collagen Type I Alpha 1 (COL1a1); COL-1A1; COL1-A1; COL1A-1; OI4; Collagen Alpha-1(I)chain; COL1a1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E.coli
Reactivity	Mus musculus (Mouse)
Purity/Purification	> 90%
Form/Format	20mM Tris, 150mM NaCl, pH8.0, containing 0.01% skl, 5%Trehalose
Concentration	Original Concentration: 200ug/mL (varies by lot)
Applicable Applications for COL1a1 recombinant protein	WB (Western Blot), SDS-PAGE, Immunogen, Positive Control
Source	Prokaryotic expression
Residues	Gly22~Ser154
Tags	N-terminal His and GST Tag
Subcellular Location	Secreted
Traits	Freeze-dried powder
Predicted isoelectric point	4.0
Phenomenon explanation	The possible reasons that the actual band size differs from the predicted are as follows: 1. Splice variants: Alternative splicing may create different sized proteins from the same gene. 2. Relative charge: The composition of amino acids may affects the charge of the protein. 3. Post-translational modification: Phosphorylation, glycosylation, methylation etc. 4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form. 5. Polymerization of the target protein: Dimerization, multimerization etc.
Usage	Reconstitute in ddH2O to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.



Identification
Gene Sequencing (extract

SDS-PAGE

QQEDIPEVS CIHNGLRVPN GETWKPEVCL
ICICHNGTAV CDDVQCNEEL DCPNPQRREG ECCAFCPEEY VSPNSEDVG
EGPKGDGPQ GPRGPVGGP RDGIPGQPL PGPPGPPGP GPPGLGNFA
SQMS

Application Data
Sequence

ADDITIONAL INFORMATION

Product Categories/Family for COL1a1 recombinant protein Metabolic pathway

NCBI AND UNIPROT INFORMATION

NCBI GI #	83301500
NCBI GeneID	12842
UniProt Accession #	P11087
Molecular Weight	Predicted Molecular Mass: 43.7kDa Accurate Molecular Mass: 49kDa as determined by SDS-PAGE reducing conditions.
NCBI Official Full Name	Collagen alpha-1(I) chain
NCBI Official Synonym Full Names	collagen, type I, alpha 1
NCBI Official Symbol	Col1a1
NCBI Official Synonym Symbols	Cola1; Mov13; Cola-1; Mov-13; Col1a-1
NCBI Protein Information	collagen alpha-1(I) chain
UniProt Protein Name	Collagen alpha-1(I) chain
UniProt Gene Name	Col1a1
UniProt Synonym Gene Names	Cola1
UniProt Entry Name	CO1A1_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.