

Collagen Type III Alpha 1 (COL3a1) Recombinant Protein | COL3a1 recombinant protein

Recombinant Collagen Type III Alpha 1 (COL3a1)

CATALOG # AAA135536	HOST E.coli	APPLICATIONS Western Blot, SDS-Page
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PRODUCT SYNONYMS

Collagen Type III Alpha 1 (COL3a1); Recombinant Collagen Type III Alpha 1 (COL3a1); COL3a1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E.coli
Purity/Purification	> 95%
Form/Format	20mM Tris, 150mM NaCl, pH8.0, containing 0.01% SKL, 5% Trehalose.
Concentration	Original Concentration: 20ug/mL (varies by lot)
Sequence	GKNGAKGEPG ARGERGEAGS PGIPGPKGED GKDGSPEPG ANGLPGAAGE RGPSGFRGPA GPNGIPGEKG PPGERGGPG AGPRGVAGEP GRDGTGGPG IRGMPGSPGG PGNDGKPGPP GSQGESGRPG PPGPSGPRGQ PGVMGFPGPK GNDGAPGKNG ERGGPGGPGP GPAGKNGET GPQGPPGPTG PAGDKGDSGP PGPQGLQGIP
Applicable Applications for COL3a1 recombinant protein	WB (Western Blot), SDS-PAGE, Immunogen, Positive Control
Organism Species	Mus musculus (Mouse)
Source	Prokaryotic expression
Residues	Gly434~Pro643
Tags	N-terminal His Tag
Subcellular Location	Secreted
Traits	Freeze-dried powder
Predicted isoelectric point	9.1
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 0-0.5 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.

IMAGES



SDS-PAGE

NCBI AND UNIPROT INFORMATION

NCBI GI #	226423933
NCBI GeneID	12825
NCBI Accession #	NP_034060.2
NCBI GenBank Nucleotide #	NM_009930.2
UniProt Accession #	P08121; Q61429; Q9CRN7
Molecular Weight	Predicted Molecular Mass: 20.3kDa Accurate Molecular Mass: 27kDa as determined by SDS-PAGE reducing conditions.
NCBI Official Full Name	collagen alpha-1(III) chain
NCBI Official Synonym Full Names	collagen, type III, alpha 1
NCBI Official Symbol	Col3a1
NCBI Official Synonym Symbols	Ms10w; Col3a-1; MMS10-W; AW550625; mKIAA4231
NCBI Protein Information	collagen alpha-1(III) chain; collagen alpha-1(III) chain; procollagen, type III, alpha 1; minisatellite 10w detected by probe MMS10
UniProt Protein Name	Collagen alpha-1(III) chain
UniProt Gene Name	Col3a1
UniProt Entry Name	CO3A1_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.

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Online datasheet: <https://stage.aaabiotech.com/col3a1-recombinant-protein-e-coli-wb-western-blot-sds-page-immunogen-positive-control/135536>