

Collagen alpha-3 (IV) chain (COL4A3) Recombinant Protein | COL4A3 recombinant protein

Recombinant Bovine Collagen alpha-3 (IV) chain (COL4A3), partial

CATALOG # AAA117490	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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PRODUCT SYNONYMS

Collagen alpha-3 (IV) chain (COL4A3); Recombinant Bovine Collagen alpha-3 (IV) chain (COL4A3); partial; COL4A3 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-471, full length protein
Sequence	GLPGRKGPVG DAGPPGQLGV TGPQGAPGFP GVTIPGQKGD RGPPGSRGNP GMPGPPGPPG SPVEGIKGDK GLMGEPGQRG PPGAIGDMGS PGHPGAPGVP GQPGARGDPG FYGFPGMKGK KGNSGFPGPP GPPGQSGPKG PPGVRGEPGT VKIISLPGSP GPPGSAGEPG MQGEPGPPGP PGDPGPCGPK GKPGEDGPPG TPGPTGEKGN KGCKGEQGGP GSDGLPGLKG KPGDTGPPAA GAVMRGFVFT RHSQTTAIPS CPEGTEPLYS GFSLLFVQGN EQAHGQDLGT LGSCLQRFTT MPFLFCNIND VCNFASRNDY SYWLSTPAMI PMDMAPITGR ALEPYISRCT VCEGPAIAIA VHSQTTDIPP CPAGWISLWK GFSFIMFTSA GSEGAGQALA SPGSCLEEFR ASPFIECHGR GTCNYYSNSY SFWLASLDPK RMFRKPIST VKAGELENII SRCQVCMKMR P
Sequence Length	471
Species	Bovine
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.

ADDITIONAL INFORMATION

Related Product Information for COL4A3 recombinant protein	Type IV collagen, the major structural component of basement membranes, is a multimeric protein composed of 3 alpha subunits. These subunits are encoded by 6 different genes, alpha 1 through alpha 6, each of which can form a triple helix structure with 2 other subunits to form type IV collagen. This gene encodes alpha 3. In the Goodpasture syndrome, autoantibodies bind to the collagen molecules in the basement membranes of alveoli and glomeruli. The epitopes that elicit these autoantibodies are localized largely to the non-collagenous C-terminal domain of the protein. A specific kinase phosphorylates amino acids in this same C-terminal region and the expression of this kinase is upregulated during pathogenesis. There are multiple alternate transcripts that appear to be unique to this human alpha 3 gene and alternate splicing is restricted to the six exons that encode this C-terminal domain. This gene is also linked to an autosomal recessive form of Alport syndrome. The mutations contributing to this syndrome are also located within the exons that encode this C-terminal region. Like the other members of the type IV collagen gene family, this gene is organized in a head-to-head conformation with another type IV collagen gene so that each gene pair shares a common promoter. Some exons of this gene are interspersed with exons of an uncharacterized gene which is on the opposite strand.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	2493782
NCBI GeneID	317711
UniProt Accession #	Q28084

Molecular Weight	47,585 Da
NCBI Official Full Name	Collagen alpha-3(IV) chain
NCBI Official Symbol	COL4A3
NCBI Protein Information	collagen alpha-3(IV) chain
UniProt Protein Name	Collagen alpha-3(IV) chain
UniProt Gene Name	COL4A3

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://www.aaabiotech.com/col4a3-recombinant-protein-e-coli/117490>