

# Collagen alpha-2 (IV) chain (Col4a2), partial Recombinant Protein | Col4a2 recombinant protein

Recombinant Mouse Collagen alpha-2 (IV) chain (Col4a2), partial

|                               |                                                                 |
|-------------------------------|-----------------------------------------------------------------|
| CATALOG #<br><b>AAA113836</b> | HOST<br><b>E Coli or Yeast or Baculovirus or Mammalian Cell</b> |
|-------------------------------|-----------------------------------------------------------------|

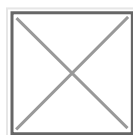
## PRODUCT SYNONYMS

Collagen alpha-2 (IV) chain (Col4a2); partial; Recombinant Mouse Collagen alpha-2 (IV) chain (Col4a2); Collagen alpha-2(IV) chainCleaved into the following chain:  
1. Canstatin; Col4a2 recombinant protein

## PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| 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      | 1481-1707aa; Partial                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Sequence                | VSIGYLLVKH SQTDAQPMCP VGMNKLWSGY SLLYFEGQEK AHNQDLGLAG SCLARFSTMP FLYCNPBGDVC<br>YYASRNDKSY WLSTTAPLPM MPVAEEEEIKP YISRCVCEA PAVAIIVHSQ DTSIPHCPAG WRSLWIGYSF<br>LMHTAAGDEG GGQSLVSPGS CLEDFRATPF IECNGGRGTC HYFANKYSFW LTTIPEQNFQ STPSADTLKA<br>GLIRTHISRC QVCMKNL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Species                 | Mus musculus (Mouse)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Production Note         | <b>Special Offer:</b> The E Coli host-expressed protein is manufactured from a stock plasmid containing the protein gene. E Colihost-expressed protein is stocked in different unit sizes ranging from as small as 10 ug to as large as 1 mg. Bulk inventory is also available. The E Coli host-expressed protein has been ordered over and over again by researchers and has stood the test of time as both a robust protein and important target for the research community. It is part of our new program to make our most popular protein targets and corresponding hosts available in expanded unit sizes and with a quick processing time. Select E Coli host-expressed protein for the fastest delivery among all hosts. Please contact our <b>or email to</b> for more details. |
| 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## IMAGES



SDS-PAGE

## ADDITIONAL INFORMATION

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|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for Col4a2 recombinant protein | Type IV collagen is the major structural component of glomerular basement membranes (GBM), forming a 'chicken-wire' meshwork together with laminins, proteoglycans and entactin/nidogen.<br>Canstatin, a cleavage product corresponding to the collagen alpha 2(IV) NC1 domain, possesses both anti-angiogenic and anti-tumor cell activity. It inhibits proliferation and migration of endothelial cells, reduces mitochondrial membrane potential, and induces apoptosis. Specifically induces Fas-dependent apoptosis and activates procaspase-8 and -9 activity. Ligand for alphavbeta3 and alphavbeta5 integrins |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                  |
|----------------------------------|--------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 226437587                                                                                        |
| NCBI GeneID                      | 12827                                                                                            |
| NCBI Accession #                 | NP_034062.3                                                                                      |
| NCBI GenBank Nucleotide #        | NM_009932.3                                                                                      |
| UniProt Accession #              | P08122; Q3B7C2; Q3TPV9; Q61375; Q66JS5; Q6RCT6; Q6RCT7; Q6U9X1; Q8BPI9; Q8BPK3; Q91VI3           |
| Molecular Weight                 | 29.1 kDa                                                                                         |
| NCBI Official Full Name          | collagen alpha-2(IV) chain preproprotein                                                         |
| NCBI Official Synonym Full Names | collagen, type IV, alpha 2                                                                       |
| NCBI Official Symbol             | Col4a2                                                                                           |
| NCBI Official Synonym Symbols    | Col4a-2                                                                                          |
| NCBI Protein Information         | collagen alpha-2(IV) chain; collagen alpha-2(IV) chain; canstatin; procollagen, type IV, alpha 2 |
| UniProt Protein Name             | Collagen alpha-2(IV) chain                                                                       |
| UniProt Gene Name                | Col4a2                                                                                           |
| UniProt Entry Name               | CO4A2_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/col4a2-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/113836>