

## Recombinant Mouse COL4 Protein (His Tag)

**Catalog Number:** PDMM100035

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

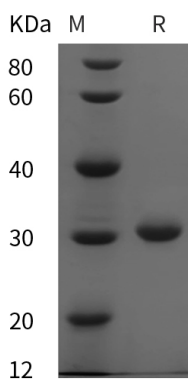
### Description

|                      |  |
|----------------------|--|
| <b>Species</b>       | Mouse  |
| <b>Source</b>        | Mammalian-derived Mouse COL4 protein Ser1441-Thr1669, with an C-terminal His |
| <b>Calculated MW</b> | 25.1 kDa   |
| <b>Observed MW</b>   | 30 kDa   |
| <b>Accession</b>     | P02463   |
| <b>Bio-activity</b>  | Not validated for activity   |

### Properties

|                       |   |
|-----------------------|---|
| <b>Purity</b>         | > 95% as determined by reducing SDS-PAGE.   |
| <b>Endotoxin</b>      | < 1.0 EU/mg of the protein as determined by the LAL method  |
| <b>Storage</b>        | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |
| <b>Shipping</b>       | This product is provided as lyophilized powder which is shipped with ice packs.   |
| <b>Formulation</b>    | Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.   |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.  |

### Data



SDS-PAGE analysis of Mouse COL4 proteins, 2 µg/lane of Recombinant Mouse COL4 proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 30 kDa.

### Background

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. Arresten, comprising the C-terminal NC1 domain, inhibits angiogenesis and tumor formation. The C-terminal half is found to possess the anti-angiogenic activity. Specifically inhibits endothelial cell proliferation, migration and tube formation. Inhibits expression of hypoxia-inducible factor 1 alpha and ERK1/2 and p38 MAPK activation. Ligand for alpha1/beta1 integrin.

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Toll-free: 1-888-852-8623  
Web: [www.elabscience.com](http://www.elabscience.com)

Tel: 1-832-243-6086  
Email: [techsupport@elabscience.com](mailto:techsupport@elabscience.com)

Fax: 1-832-243-6017