

## Recombinant Mouse COL4 protein (His Tag)

**Catalog Number:** PDMM100035

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

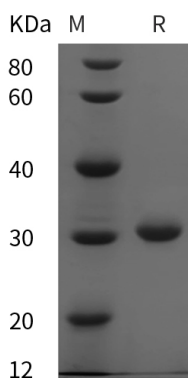
### Description

|                      |   |
|----------------------|---|
| <b>Species</b>       | Mouse   |
| <b>Source</b>        | HEK293 Cells-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



> 95 % as determined by reducing SDS-PAGE.

### 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 1α and ERK1/2 and p38 MAPK activation. Ligand for α1β1 integrin.

### For Research Use Only