Recombinant Mouse COL4 Protein (His Tag)

Catalog Number: PDMM100035

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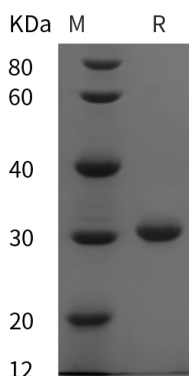
Description

Species	Mouse
Source	HEK293 Cells-derived Mouse COL4 protein Ser1441-Thr1669, with an C-terminal His
Calculated MW	25.1 kDa
Observed MW	30 kDa
Accession	P02463
Bio-activity	Not validated for activity

Properties

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU/mg of the protein as determined by the LAL method
Storage	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.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	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 1alpha and ERK1/2 and p38 MAPK activation. Ligand for alpha1/beta1 integrin.

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