

## Active Recombinant Mouse Col18a1, His-tagged

Cat. No. Col18a1-205M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Col18a1 (His1591-Lys1774) fused with 6His tag at Cterminal, was expressed in Mouse NSO Cells.
<b>Species</b>	Mouse
<b>Source</b>	Mammalian Cells
<b>ProteinLength</b>	1591-1774 a.a.
<b>Description</b>	Collagen alpha-1(XVIII) chain is a protein that in humans is encoded by the COL18A1 gene. This gene encodes the alpha chain of type XVIII collagen. This collagen is one of the multiplexins, extracellular matrix proteins that contain multiple triple-helix domains (collagenous domains) interrupted by non-collagenous domains. The proteolytically produced C-terminal fragment of type XVIII collagen is endostatin, a potent antiangiogenic protein. Mutations in this gene are associated with Knobloch syndrome. The main features of this syndrome involve retinal abnormalities so type XVIII collagen may play an important role in retinal structure and in neural tube closure. Two transcript variants encoding different isoforms have been found for this gene.
<b>Predicted N Terminal</b>	Met-His1591
<b>Formulation</b>	Lyophilized from a 0.2 µ filtered solution in PBS.
<b>Bio-activity</b>	Measured by its ability to inhibit the FGF basic-dependent proliferation of HUVEC

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human umbilical vein endothelial cells. The ED50 for this effect is typically 0.3-1.5 g/mL in the presence of 20 g/mL of Goat Anti-Mouse Endostatin Antigen Affinity-purified Polyclonal Antibody.

**Molecular Mass** 21.3 kDa

**Purity** >95%, by SDS-PAGE under reducing conditions and visualized by silver stain.

**Storage** Avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70 °C under sterile conditions after reconstitution.

**Reconstitution** Reconstitute at 200 g/mL in PBS.

## GENE INFORMATION

**Gene Name** [Col18a1 collagen, type XVIII, alpha 1 \[ Mus musculus \(house mouse\) \]](#)

**Official Symbol** Col18a1

**Synonyms** Col18a1; collagen, type XVIII, alpha 1; collagen alpha-1(XVIII) chain; endostatin; procollagen, type XVIII, alpha 1

**Gene ID** [12822](#)

**mRNA Refseq** [NM\\_009929](#)

**Protein Refseq** [NP\\_034059](#)

**UniProt ID** P39061

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<b>Chromosome Location</b>	10 B5-C1; 10 39.72 cM
<b>Pathway</b>	Activation of Matrix Metalloproteinases; Assembly of collagen fibrils and other multimeric structures; Collagen formation
<b>Function</b>	identical protein binding; metal ion binding; structural molecule activity

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