

# Recombinant Mouse Col18a1 protein, H1591-K1774, C-6×His tagged

**Cat. No.** Col18a1-12M    **Lot. No.** (See product label)

## SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | Collagen alpha-1 (XVIII) chain/COL18A1 Protein, Mouse (HEK293, His) is the recombinant mouse-derived Collagen alpha-1 (XVIII) chain/COL18A1 protein, expressed by HEK293, with C-6×His labeled tag. The total length of Collagen alpha-1 (XVIII) chain/COL18A1 Protein, Mouse (HEK293, His) is 184 AA.  |
| <b>Species</b>          | Mouse   |
| <b>Source</b>           | HEK293  |
| <b>ProteinLength</b>    | H1591-K1774   |
| <b>Description</b>      | Predicted to enable identical protein binding activity. Predicted to be an extracellular matrix structural constituent. Acts upstream of or within several processes, including angiogenesis; endothelial cell morphogenesis; and positive regulation of endothelial cell apoptotic process. Located in basement membrane. Is expressed in several structures, including alimentary system; brain; genitourinary system; respiratory system; and sensory organ. Used to study pigment dispersion syndrome. Human ortholog(s) of this gene implicated in primary angle-closure glaucoma. Orthologous to human COL18A1 (collagen type XVIII alpha 1 chain). |
| <b>Form</b>             | Lyophilized powder  |
| <b>Molecular Mass</b>   | Approximately 18.0 kDa  |

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|                       |   |
|-----------------------|---|
| <b>AA Sequence</b>    | HTHQDFQPVLHLVALNTPLSGGMRGIRGADFQCFQQARAVGLSGTFRAFLSSRLQD<br>LYSIVRRADRGSPVIVNLKDEVLSPSWDSLFSGSQGLQPGARIFSFDRDVLRHPA<br>WPQKSVWHGSDPSGRRLMESYCETWRTETTGTATGQASSLLSGRLLLEQKAASCHN<br>SYIVLCIENSFMTSFSK  |
| <b>Endotoxin</b>      | <1 EU/μg determined by LAL method.  |
| <b>Purity</b>         | > 95% by SDS-PAGE   |
| <b>Storage</b>        | Stored at -20 centigrade for 2 years. After reconstitution, it is stable at 4 centigrade for 1 week or -20 centigrade for longer (with carrier protein). It is recommended to freeze aliquots at -20 centigrade or -80 centigrade for extended storage. |
| <b>Storage Buffer</b> | Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.   |
| <b>Reconstitution</b> | It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).                                       |

## GENE INFORMATION

|                        |  |
|------------------------|--|
| <b>Gene Name</b>       | Col18a1 collagen, type XVIII, alpha 1 [ <i>Mus musculus</i> (house mouse) ]  |
| <b>Official Symbol</b> | Col18a1  |
| <b>Synonyms</b>        | Col18a1; collagen, type XVIII, alpha 1; collagen alpha-1(XVIII) chain; alpha-1(XVIII) collagen; endostatin; procollagen, type XVIII, alpha 1 |
| <b>Gene ID</b>         | 12822  |
| <b>mRNA Refseq</b>     | NM_009929  |

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**Protein Refseq** NP\_034059

**UniProt ID** P39061

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