

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

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

SPECIFICATION

Product Overview	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.
Species	Mouse
Source	HEK293
ProteinLength	H1591-K1774
Description	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).
Form	Lyophilized powder
Molecular Mass	Approximately 18.0 kDa

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AA Sequence	HTHQDFQPVLHLVALNTPLSGGMRGIRGADFQCFQQARAVGLSGTFRAFLSSRLQD LYSIVRRADRGSPVIVNLKDEVLSPSWDSLFSGSQGQLQPGARIFSFDGRDVLRLHPA WPQKSVWHGSDPSGRRLMESYCETWRTETTGTATGQASSLLSGRLLEQKAASCHN SYIVLCIENSFMTSFSK
Endotoxin	<1 EU/μg determined by LAL method.
Purity	> 95% by SDS-PAGE
Storage	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.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ 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

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

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Protein Refseq	NP_034059
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UniProt ID	P39061
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