Recombinant Human COL18A1 Protein, His-tagged

Cat. No. COL18A1-1274H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human COL18A1 Protein (His1154-Ser1335) with N-His tag.
Species	Human
ProteinLength	His1154-Ser1335
Description	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. A long isoform of the protein has an N-terminal domain that is homologous to the extracellular part of frizzled receptors. Proteolytic processing at several endogenous cleavage sites in the C-terminal domain results in production of endostatin, a potent antiangiogenic protein that is able to inhibit angiogenesis and tumor growth. 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. Alternative splicing results in multiple transcript variants.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 21.58 kDa Accurate Molecular Mass: 21 kDa
Purity	> 90%

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Applications	Cell culture; Activity Assays.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (PH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	COL18A1 collagen type XVIII alpha 1 chain [Homo sapiens (human)]
Official Symbol	COL18A1
Synonyms	COL18A1; collagen type XVIII alpha 1 chain; KS; KNO; GLCC; KNO1; collagen alpha-1(XVIII) chain; antiangiogenic agent; collagen, type XVIII, alpha 1; endostatin; multi-functional protein MFP
Gene ID	80781
mRNA Refseq	NM_030582
Protein Refseq	NP_085059

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MIM	120328
UniProt ID	P39060

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