Recombinant Human Collagen, Type XVIII, Alpha 1

Cat. No. COL18A1-4986H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human COL18A1 was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	Human
Description	Endostatin is a naturally occurring 20 kDa polypeptide derived from the C-terminal portion of type XVIII collagen. It functions as an anti-angiogenic cytokine that is expressed in various organs with the highest levels in liver, lung and kidney. Endostatin inhibits angiogenesis by blocking the pro-angiogenic activities of VEGF and FGF basic.
Form	Supplied as a lyophilized powder.
Purity	>98% pure by SDS PAGE and HPLC
Sequence	Region of Endostatin protein corresponding to amino acids MHSHRDFQPV LHLVALNSPL SGGMRGIRGA DFQCFQQARA VGLAGTFRAF LSSRLQDLYS IVRRADRAAV PIVNLKDELL FPSWEALFSG SEGPLKPGAR IFSFDGKDVL RHPTWPQKSV WHGSDPNGRR LTESYCETWR TEAPSATGQA SSLLGGRLLG QSAASCHHAY IVLCIENSFM
Molecular Mass	20.2 kDa

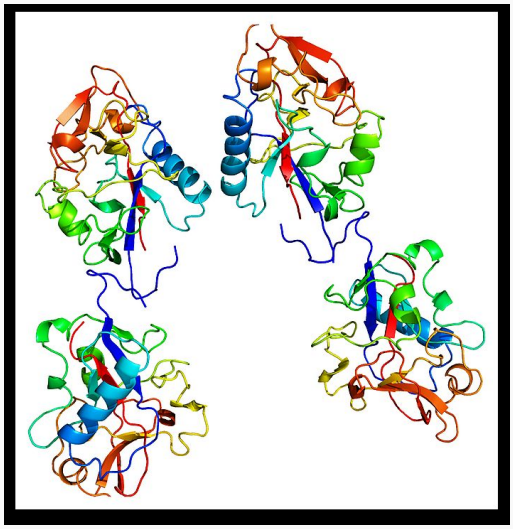
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Applications	Numerous applications are possible with this product and should be tested by the end user under their own laboratory conditions
Storage	Store at 4 deg C until reconstitution. Following reconstitution aliquot and freeze at -20 deg C for long term storage. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name	COL18A1 collagen, type XVIII, alpha 1 [Homo sapiens]
Official Symbol	COL18A1
Synonyms	COL18A1; collagen, type XVIII, alpha 1; KNO; KNO1; FLJ27325; FLJ34914; MGC74745; collagen alpha-1(XVIII) chain; endostatin; antiangiogenic agent; multi-functional protein MFP
Gene ID	80781
mRNA Refseq	NM_030582
Protein Refseq	NP_085059
MIM	120328
UniProt ID	P39060
Chromosome Location	21q22.3
Pathway	Direct p53 effector; FOXA1 transcription factor network; Protein digestion and absorption

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Function	extracellular matrix structural constituent; metal ion binding; protein binding
PDB rendering basedon 1bnl.	

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