

Recombinant Human COL18A1

Cat. No. COL18A1-28560TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human Recombinant Full Length Endostatin produced in Pichia Pastoris. A single, glycosylated, polypeptide having a total molecular weight of 20 kDa.
Species	Human
Protein Length	1571-1754 aa
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. 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. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Tissue specificity	Present in multiple organs with highest levels in liver, lung and kidney.
Biological activity	The activity calculated by ECE migration inhibition was found to be 50,000 IU/mg.
Form	Liquid
Purity	>95% by SDS-PAGE

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Storage buffer	Preservative: None Constituents: PBS
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	Amino Acid Composition is in total agreement with the expected amino acid composition of native human Endostatin.
Sequence Similarities	Belongs to the multiplexin collagen family. Contains 1 FZ (frizzled) domain. Contains 1 TSP N-terminal (TSPN) domain.
Full Length	Full L.

GENE INFORMATION

Gene Name	COL18A1 collagen, type XVIII, alpha 1 [Homo sapiens]
Official Symbol	COL18A1
Synonyms	COL18A1; collagen, type XVIII, alpha 1; KNO, Knobloch syndrome, type 1; collagen alpha-1(XVIII) chain; endostatin; KNO1; KS;
Gene ID	80781
mRNA Refseq	NM_030582
Protein Refseq	NP_085059
MIM	120328
Uniprot ID	P39060

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Chromosome Location	21q22.3
Pathway	Direct p53 effectors, organism-specific biosystem; FOXA1 transcription factor network, organism-specific biosystem; Protein digestion and absorption, organism-specific biosystem; Protein digestion and absorption, conserved biosystem;
Function	metal ion binding; protein binding; structural molecule activity;

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