Recombinant Human COL15A1 protein

Cat. No. COL15A1-1171H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human COL15A1 protein was expressed in Escherichia coli.
Species	Human
Source	E.coli
ProteinLength	177
Description	Endostatin has been identified as a C-terminal fragment of Collagen type 18, a recently identified member of a family of collagen-like proteins referred to as multiplexin family. Endostatin specifically inhibits proliferation of endothelial cells although it does not affect the proliferation of EOMA cells. Endostatin also potently inhibits angiogenesis and tumor growth. Endostatin has an important role in endothelial cell adhesion and cytoskeletal organization. Endostatin can be found in vessel walls (elastic fibers) and basement membranes. Recombinant Endosatin expressed in yeast causes G1 arrest of endothelial cells, and endostatin treatment results in apoptosis of HUVE and HMVE cells.
Form	Lyophilized from a 0.2μm filtered concentrated solution in PBS, pH 7.4.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by inhibiting the FGF basic-dependent proliferation of HUVEC migration is less than 2.0 g/mL in the presence of Anti-Human Endostatin Polyclonal Antibody.
Molecular Mass	Approximately 19.8 kDa, a single non-glycosylated polypeptide chain containing 177

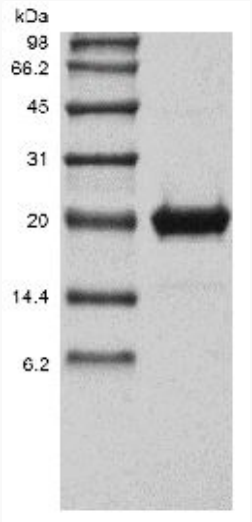
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	amino acids (C-terminal fragment of collagen XVIII).
AA Sequence	NYEKPALHLAALNMPFSGDIRADFQCFKQARAAGLLSTYRAFLSSHLQDLSTIVRKA ERYSLPIVNLKGQVLFNNWDSIFSGHGGQFNMHIPIYSFDGRDIMTDPSWPQKVIWH GSSPHGVRLVDNYCEAWRTADTAVTGLASPLSTGKILDQKAYSCANRLIVLCIENSF MTDARK
Endotoxin	Less than 1 EU/μg of rHuEndostatin as determined by LAL method.
Purity	>96% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	COL15A1
Official Symbol	COL15A1
Synonyms	COL15A1; collagen, type XV, alpha 1; collagen alpha-1(XV) chain; collagen type XV proteoglycan; collagen XV, alpha-1 polypeptide; FLJ38566;

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Gene ID	1306
mRNA Refseq	NM_001855
Protein Refseq	NP_001846
MIM	120325
UniProt ID	P39059
SDS-PAGE of COL15A1-1171H	

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