

Active Recombinant Human Endostatin

Cat. No. COL18A1-19H Lot. No. (See product label)

SPECIFICATION

Product Overview

Species Human

Source E.coli

Product Overview Recombinant Human Endostatin produced in E. coli is a single glycosylated polypeptide having a total molecular mass of 20 kDa.

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 Endostatin 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 (1mg/ml) solution in PBS, pH 7.4.

Purity >96% by SDS-PAGE and HPLC analyses.

Bio-activity Fully biologically active when compared to standard. The activity calculated by ECE migration inhibition was found to be 50,000 IU/mg.

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EndotoxinLevel	Less than 1EU/μg of rHuEndostatin as determined by LAL method.
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 <-20oC. Further dilutions should be made in appropriate buffered solutions.
Storage	Store it under sterile conditions at -20 ~ -70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	COL18A1 collagen, type XVIII, alpha 1 [Homo sapiens]
Official Symbol	COL18A1
Synonyms	FLJ27325; KNO; KNO1; MGC74745; OTTHUMP00000115472; OTTHUMP00000115473; alpha 1 type XVIII collagen; antiangiogenic agent; endostatin; multi-functional protein MFP; XVIII chain precursor; Collagen alpha-1; XVIIIchain precursor; collagen, type XVIII, alpha 1; human type XVIII collagen; COL18A1
Gene ID	80781
mRNA Refseq	NM_030582
Protein Refseq	NP_085059
MIM	120328

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UniProt ID	P39060
Chromosome Location	21q22.3
Function	binding, extracellular matrix structural constituent, metal ion binding, protein binding, structural molecular activity, zinc ion binding.

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