

Recombinant Murine Collagen, Type XVIII, Alpha 1, Fc Chimera

Cat. No. Col18a1-200M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Murinecollagen, type XVIII, alpha 1 was expressed in <i>Pichia pastoris</i> .
Species	Mouse
Source	P.pastoris
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.
Biochem/Physiol Actions	Endostatin is a potent inhibitor of angiogenesis and tumor growth in vitro and in vivo; specifically inhibits endothelial cell proliferation.
Physical Form	17 mM citric-phosphate buffer, pH 6.2.
Assay	≥95% (HPLC).
Concentration	4 mg/mL (17 mM citric-phosphate buffer, pH 6.2).

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Total Impurities Endotoxin, tested.

Storage Temp -70°C.

GENE INFORMATION

Gene Name Col18a1 collagen, type XVIII, alpha 1 [Mus musculus]

Synonyms Col18a1; collagen, type XVIII, alpha 1; endostatin

Gene ID 12822

mRNA Refseq NM_001109991

Protein Refseq NP_001103461

UniProt ID P39061

Chromosome Location 10 B5-C1; 10 41.3 cM

Function binding; extracellular matrix structural constituent; metal ion binding; structural molecule activity

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