

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

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

SPECIFICATION

Product Overview	Recombinant Murine collagen, 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).

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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
-----------------	---

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA