

Recombinant Mouse Collagen, Type XVIII, Alpha 1

Cat. No. Col18a1-204M Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant mouse endostatin was fused to a His•Tag sequence and expressed in *S. frugiperda* insect cells. A 20 kDa C-terminal proteolytic fragment of collagen XVIII that specifically inhibits endothelial cell proliferation and potently inhibits angiogenesis and tumor growth. MW = 21397.

Species Mouse

Source *S. frugiperda*

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. Two transcript variants encoding different isoforms have been found for this gene.

Purity Single band by SDS-PAGE.

Form Lyophilized from PBS, 10 mM citrate, pH 7.4.

Solubility H₂O. Please see vial label for concentration prior to lyophilization.

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Toxicity	Standard Handling(MSDS available upon request).
Storage	≤ -70°C. Protect from moisture. Following reconstitution, aliquot and freeze (-20°C) for long term storage or refrigerate (4°C) for short term storage. Stock solutions are stable for up to 3 months at 4°C or for up to 1 year at -20°C.
GENE INFORMATION	
Gene Name	Col18a1 collagen, type XVIII, alpha 1 [<i>Mus musculus</i>]
Synonyms	Col18a1; collagen, type XVIII, alpha 1; endostatin; collagen alpha-1(XVIII) chain; OTTMUSP00000023764; OTTMUSP00000023766; procollagen, type XVIII, alpha 1
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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PDB rendering based
on 1bnl.



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