Bioactive

COL18A1 (Human) Recombinant Protein

Catalog # P7141 Size 100 ug

Specification

Product Description	Human COL18A1 (P39060, 1571 a.a. - 1754 a.a.) partial recombinant protein expressed in *Pichia p astoris*.
Sequence	AHSHRDFQPVLHLVALNSPLSGGMRGIRGADFQCFQQARAVGLAGTFRAFLSSRLQDLYSIVRRA DRAAVPIVNLKDELLFPSWEALFSGSEGPLKPGARIFSFDGKDVLRHPTWPQKSVWHGSDPNG RRLTESYCETWRTEAPSATGQASSLLGGRLLGQSAASCHHAYIVLCIENSFMTASK
Host	Yeast
Theoretical MW (kDa)	20.2
Form	Lyophilized
Preparation Method	*Pichia pastoris* expression system
Purity	> 97% by SDS-PAGE
Endotoxin Level	< 1 EU per 1 ug of protein (determined by gel clotting method)
Activity	Determined by Endothelial Cell Tube Formation. The cells treated with 10 ug/ml Endostatin showed s ignificant anti-angiogenesis effect.
Storage Buffer	Lyophilized from sterile distilled Water up to 100 ug/ml
Storage Instruction	Store at 4°C to 8°C for 1 week. For long term storage store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

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Gene Info — COL18A1

Entrez GeneID	80781
Protein Accession#	P39060
Gene Name	COL18A1
Gene Alias	FLJ27325, FLJ34914, KNO, KNO1, MGC74745
Gene Description	collagen, type XVIII, alpha 1
Omim ID	120328 267750
Gene Ontology	Hyperlink
Gene Summary	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) interr upted 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 XVI II collagen may play an important role in retinal structure and in neural tube closure. Alternatively sp liced transcript variants encoding different isoforms have been found for this gene. [provided by R efSeq
Other Designations	OTTHUMP00000115472|OTTHUMP00000115473|alpha 1 type XVIII collagen|antiangiogenic ag ent|endostatin|multi-functional protein MFP

Disease

- Adenocarcinoma
- Asthma
- Breast cancer
- Breast Neoplasms
- Diabetes
- Diabetes Mellitus
- Endometriosis
- Genetic Predisposition to Disease

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- Head and Neck Neoplasms

- Hypersensitivity
- Leukemia
- Liver Cirrhosis
- Lung Neoplasms
- Multiple Myeloma
- Myopia
- Neoplasm Invasiveness
- Neoplasm Recurrence
- Neoplasms
- Neovascularization
- Obesity
- Overweight
- Prostate cancer
- Prostatic Neoplasms
- Pulmonary Disease
- Stomach Neoplasms
- Urinary Bladder Neoplasms
- Werner syndrome

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