

Product datasheet for **TP723077**

Endostatin (COL18A1) (NM_130445) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human collagen, type XVIII, alpha 1 (COL18A1), transcript variant 2.
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MHSHRDFQPV LHLVALNSPL SGGMRGIRGA DFQCFQARA VGLAGTFRAF LSSRLQDLYS IVRRADRAAV PIVNLKDELL FPSWEALFSG SEGPLKPGAR IFSFDGKDLV RHPTWPKSV WHGSDPNGRR LTESYCETWR TEAPSATGQA SLLGGRLLG QSAASCHHAY IVLCIENSFM TASK
Tag:	Tag Free
Predicted MW:	20.2 kDa
Concentration:	lot specific
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Lyophilized from a 0.2 μM filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2
Bioactivity:	Measured by its ability to inhibit HUVEC migration.
Endotoxin:	Endotoxin level is < 0.1 ng/μg of protein (< 1 EU/μg)
Storage:	Store at -80°C.
Stability:	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
RefSeq:	NP_569712
Locus ID:	80781
UniProt ID:	P39060 , D3DSM4
RefSeq Size:	5398
Cytogenetics:	21q22.3
RefSeq ORF:	4008
Synonyms:	KNO; KNO1; KS



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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) interrupted by non-collagenous domains. A long isoform of the protein has an N-terminal domain that is homologous to the extracellular part of frizzled receptors. Proteolytic processing at several endogenous cleavage sites in the C-terminal domain results in production of endostatin, a potent antiangiogenic protein that is able to inhibit angiogenesis and tumor growth. 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. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014]

Product images: