

Collagen alpha-1(XVIII) chain Recombinant Protein | COL18A1 recombinant protein

Recombinant Human Collagen alpha-1(XVIII) chain

CATALOG #
AAA113448

HOST
E Coli or Yeast or Baculovirus or Mammalian Cell

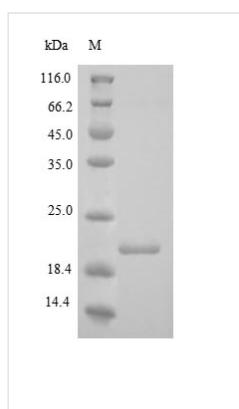
PRODUCT SYNONYMS

Collagen alpha-1(XVIII) chain; Recombinant Human Collagen alpha-1(XVIII) chain; COL18A1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1578-1754aa; Partial
Sequence	QPVHLHLVALN SPLSGGMRGI RGADFQCFQQ ARAVGLAGTF RAFLSSRLQD LYSIVRRADR AAVPIVNLKD ELLFPSWEAL FSGSEGPLKP GARIFSFDGK DVLRHPTWPQ KSVWHGSDPN GRRLTESYCE TWRTEAPSAT GQASSLLGGR LLGQSAASCH HAYIVLCIEN SFMTASK
Production Note	Special Offer: The Yeast host-expressed protein is manufactured from a stock plasmid containing the protein gene. Yeasthost-expressed protein is stocked in different unit sizes ranging from as small as 10 ug to as large as 1 mg. Bulk inventory is also available. The Yeast host-expressed protein has been ordered over and over again by researchers and has stood the test of time as both a robust protein and important target for the research community. It is part of our new program to make our most popular protein targets and corresponding hosts available in expanded unit sizes and with a quick processing time. Select Yeast host-expressed protein for the fastest delivery among all hosts. Please contact our or email to for more details.
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

**Related Product Information for
COL18A1 recombinant protein**

COLA18A probably plays a major role in determining the retinal structure as well as in the closure of the neural tube. Endostatin potentially inhibits endothelial cell proliferation and angiogenesis. May inhibit angiogenesis by binding to the heparan sulfate proteoglycans involved in growth factor signaling.

Product Categories/Family for COL18A1 recombinant protein	Cell adhesion
References	Complete primary structure of two variant forms of human type XVIII collagen and tissue-specific differences in the expression of the corresponding transcripts.Saarela J., Ylikarppa R., Rehn M., Purmonen S., Pihlajaniemi T.Matrix Biol. 16:319-328(1998) Characterization of the human type XVIII collagen gene and proteolytic processing and tissue location of the variant containing a frizzled motif.Elamaa H., Snellman A., Rehn M., Autio-Harmainen H., Pihlajaniemi T.Matrix Biol. 22:427-442(2003) The DNA sequence of human chromosome 21.Hattori M., Fujiyama A., Taylor T.D., Watanabe H., Yada T., Park H.-S., Toyoda A., Ishii K., Totoki Y., Choi D.-K., Groner Y., Soeda E., Ohki M., Takagi T., Sakaki Y., Taudien S., Blechschmidt K., Polley A., Menzel U., Delabar J., Kumpf K., Lehmann R., Patterson D., Reichwald K., Rump A., Schillhabel M., Schudy A., Zimmermann W., Rosenthal A., Kudoh J., Shibuya K., Kawasaki K., Asakawa S., Shintani A., Sasaki T., Nagamine K., Mitsuyama S., Antonarakis S.E., Minoshima S., Shimizu N., Nordsiek G., Hornischer K., Brandt P., Scharfe M., Schoen O., Desario A., Reichelt J., Kauer G., Bloecker H., Ramser J., Beck A., Klages S., Hennig S., Riesselmann L., Dagand E., Wehrmeyer S., Borzym K., Gardiner K., Nizetic D., Francis F., Lehrach H., Reinhardt R., Yaspo M.-L.Nature 405:311-319(2000) Cloning of cDNA and genomic DNA encoding human type XVIII collagen and localization of the alpha 1(XVIII) collagen gene to mouse chromosome 10 and human chromosome 21.Oh S.P., Warman M.L., Seldin M.F., Cheng S., Knoll J.H., Timmons S., Olsen B.R.Genomics 19:494-499(1994) Inhibition effect in vitro of purified endostatin expressed in Pichia pastoris.Feng Y., Cui L.B., Liu C.X., Ma Q.J.Sheng Wu Gong Cheng Xue Bao 17:278-282(2001) Cloning and expression of human endostatin gene in Escherichia coli.Zhi-Yong H., Biao L., Wei-Jie Z., Xiang-Fu W. Endostatin promotes delayed secondary damage following traumatic brain injury.Deininger M.H., Trautmann K., Schluesener H.J.No evidence for locus heterogeneity in Knobloch syndrome.Aldahmesh M.A., Khan A.O., Mohamed J.Y., Levin A.V., Wuthisiri W., Lynch S., McCreery K., Alkuraya F.S.J. Med. Genet. 50:565-566(2013) An enzyme assisted RP-RPLC approach for in-depth analysis of human liver phosphoproteome.Bian Y., Song C., Cheng K., Dong M., Wang F., Huang J., Sun D., Wang L., Ye M., Zou H.J. Proteomics 96:253-262(2014) Zinc-dependent dimers observed in crystals of human endostatin.Ding Y.-H., Javaherian K., Lo K.-M., Chopra R., Boehm T., Lanciotti J., Harris B.A., Li Y., Shapiro R., Hohenester E., Timpl R., Folkman J., Wiley D.C.Proc. Natl. Acad. Sci. U.S.A. 95:10443-10448(1998) Collagen XVIII, containing an endogenous inhibitor of angiogenesis and tumor growth, plays a critical role in the maintenance of retinal structure and in neural tube closure.Sertie A.L., Sossi V., Camargo A.A., Zatz M., Brahe C., Passos-Bueno M.R.Hum. Mol. Genet. 9:2051-2058(2000) A polymorphism in endostatin, an angiogenesis inhibitor, predisposes for the development of prostatic adenocarcinoma.lughetti P., Suzuki O., Godoi P.H., Alves V.A., Sertie A.L., Zorick T., Soares F., Camargo A.A., Moreira E.S., di Loreto C., Moreira-Filho C.A., Simpson A., Oliva G., Passos-Bueno M.R.Cancer Res. 61:7375-7378(2001) Knobloch syndrome novel mutations in COL18A1, evidence for genetic heterogeneity, and a functionally impaired polymorphism in endostatin.Menzel O., Bekkeheien R.C.J., Reymond A., Fukai N., Boye E., Kosztolanyi G., Aftimos S., Deutsch S., Scott H.S., Olsen B.R., Antonarakis S.E., Guipponi M.Hum. Mutat. 23:77-84(2004) DNA sequencing of a cytogenetically normal acute myeloid leukaemia genome.Ley T.J., Mardis E.R., Ding L., Fulton B., McLellan M.D., Chen K., Dooling D., Dunford-Shore B.H., McGrath S., Hickenbotham M., Cook L., Abbott R., Larson D.E., Koboldt D.C., Pohl C., Smith S., Hawkins A., Abbott S., Locke D., Hillier L.W., Miner T., Fulton L., Magrini V., Wylie T., Glasscock J., Conyers J., Sander N., Shi X., Osborne J.R., Minx P., Gordon D., Chinwalla A., Zhao Y., Ries R.E., Payton J.E., Westervelt P., Tomasson M.H., Watson M., Baty J., Ivanovich J., Heath S., Shannon W.D., Nagarajan R., Walter M.J., Link D.C., Graubert T.A., DiPersio J.F., Wilson R.K.Nature 456:66-72(2008)

NCBI AND UNIPROT INFORMATION

NCBI GI #	110611235
NCBI GeneID	80781
NCBI Accession #	NP_085059.2
NCBI GenBank Nucleotide #	NM_030582.3
UniProt Accession #	P39060; Q58EX6; Q6RZ39; Q6RZ40; Q6RZ41; Q8N4S4; Q8WXI5; Q96T70; Q9UK38; Q9Y6Q7; Q9Y6Q8; A8MVI4
Molecular Weight	21.3 kDa
NCBI Official Full Name	collagen alpha-1(XVIII) chain isoform 1 preproprotein
NCBI Official Synonym Full Names	collagen type XVIII alpha 1
NCBI Official Symbol	COL18A1
NCBI Official Synonym Symbols	KS; KNO; KNO1

NCBI Protein Information	collagen alpha-1(XVIII) chain
UniProt Protein Name	Collagen alpha-1(XVIII) chain
UniProt Gene Name	COL18A1
UniProt Entry Name	COIA1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/col18a1-recombinant-protein-e-coli/113448>