

## COL21A1 Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P70094
<b>Synonyms:</b>	rHuCollagen alpha-1(XXI) chain/COL21A1, His ; COL21A1; collagen, type XXI, alpha 1; collagen alpha-1(XXI) chain; alpha 1 type XXI collagen; FP633; COLA1L; dJ708F5.1; dJ682J15.1; FLJ39125; FLJ44623; MGC26619; DKFZp564B052
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	Q96P44 (E23-Y957)
<b>Gene ID:</b>	81578
<b>Molecular Weight:</b>	115-125&220 kDa

### PROPERTIES

#### AA Sequence

EDGEVRSSCR	TAPTDLVFIL	DGSYSVGPEN	FEIVKKWLVN
ITKNFDIGPK	FIQVGVVQYS	DYPVLEIPLG	SYDSGEHLTA
AVESILYLLGG	NTKTGKAIQF	ALDYLFKASS	RFLTKIAVVL
TDGKSQDDVK	DAAQAARDSK	ITLFAIGVGS	ETEDAELRAI
ANKPSSTYVF	YVEDYIAISK	IREVMKQKLC	EESVCPTRIP
VAAARDERGF	ILLGLDVNKK	VKKRIQLSPK	KIKGYEVTSK
VDLSELTSNV	FPEGLPPSYV	FVSTQRFKVK	KIWDLWRIIL
IDGRPQIAVT	LNGVDKILLF	TTTSVINGSQ	VVTFANPQVK
TLFDEGWHQI	RLLVTEQDVT	LYIDDQQIEN	KPLHPVLGIL
INGQTQIGKY	SGKEETVQFD	VQKLRIYCDP	EQNNRETACE
IPGFNGECLN	GPSDVGSTPA	PCICPPGKPG	LQGPKGDPGL
PGNPGYPGQP	GQDGKPGYQG	IAGTPGVPGS	PGIQGARGLP
GYPKGEPRDG	DKGDRGLPGF	PGLHGMPGSK	GEMGAKGDKG
SPGFYGGKGA	KGEKGNAGFP	GLPGPAGEPG	RHGKDGMLGS
PGFKGEAGSP	GAPGQDGTGR	EPGIPGFPGN	RGLMGQKGEI
GPPGQQGKKG	APGMPGLMGS	NGSPGQPGTP	GSKGSKGEPG
IQGMPGASGL	KGEPGATGSP	GEPGYMGLPG	IQGKKGDKGN
QGEKGIQQGK	GENGRQGI PG	QQGIQGHGGA	KGERGEKGEPE
GVRGAIGSKG	ESGVDGLMGP	AGPKGQPGDP	GPQGPPGLDG
KPGREFSEQF	IRQVCTDVIR	AQLPVLQSG	RIRNCDHCLS
QHGSPIPGP	PGPIGPEGPR	GLPGLPGRDG	VPGLVGVVPR
PGVRLKGLP	GRNGEKGSQG	FGYPGEQGGP	GPPGPEGPPG
ISKEGPPGDP	GLPGKDGDHG	KPGIQGQPGP	PGICDPSLCF
SVIARRDPFR	KGPNY		

#### Appearance

Lyophilized powder.

#### Formulation

Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

#### Endotoxin Level

<1 EU/µg, determined by LAL method.

<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

## DESCRIPTION

### Background

Collagen alpha-1 (XXI) chain is a protein encoded in humans by the COL21A1 gene and is a member of the FACIT (Fibrous Associated Collagen Interrupt Helix) collagen family. The expression of COL21A1 in human tissues is regulated by development, and the expression level is higher in the fetal stage. Type XXI collagen is an extracellular matrix component of blood vessel walls and is secreted by smooth muscle cells. Platelet-derived growth factor (PDGF) has a significant effect on the stimulation of COL21A1 expression in cultured aortic smooth muscle cells, suggesting that alpha1 (XXI) collagen may contribute to the extracellular matrix assembly of vascular networks during angiogenesis<sup>[1][2][3][4][5]</sup>.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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