

Recombinant Human COL8A1, His-tagged

Cat. No. COL8A1-140H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human COL8A1(Pro575~Pro743), fused with with N-terminal His-Tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	Pro575~Pro743
Description	This gene encodes one of the two alpha chains of type VIII collagen. The gene product is a short chain collagen and a major component of the basement membrane of the corneal endothelium. The type VIII collagen fibril can be either a homo- or a heterotrimer. Alternatively spliced transcript variants encoding the same protein have been observed.
Form	Supplied as lyophilized form in 20mM Tris, 500mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Molecular Mass	20.2kDa
AA Sequence	The target protein is fused with N-terminal His-Tag, its sequence is listed below. MGHHHHHHSGSEF-PPTPPP QGEYLPDMGL GIDGVKPPHA YGAKKGKNGG PAYEMPAFTA ELTAPFPVVG APVKFNKLLY NGRQNYNPQT GIFTCEVPGV YYFAYHVKCK GGNVWVALFK NNEPVMTYD EYKKGFLDQA SGSAVLLLRP GDRVFLQMPSEQAAGLYAGQ YVHSSFSGYL LYP

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Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	> 95%
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	COL8A1 collagen, type VIII, alpha 1 [Homo sapiens (human)]
Official Symbol	COL8A1
Synonyms	COL8A1; collagen, type VIII, alpha 1; C3orf7, chromosome 3 open reading frame 7; collagen alpha-1(VIII) chain; MGC9568; endothelial collagen; collagen VIII, alpha-1 polypeptide; cell proliferation-inducing protein 41; smooth muscle cell-expressed and macrophage conditioned medium-induced protein smag-64; C3orf7
Gene ID	1295
mRNA Refseq	NM_001850

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Protein Refseq	NP_001841
MIM	120251
UniProt ID	P27658
Chromosome Location	3q12.3
Pathway	Assembly of collagen fibrils and other multimeric structures; Collagen biosynthesis and modifying enzymes; Collagen formation; Extracellular matrix organization
Function	serine-type endopeptidase activity

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