

Recombinant Human COL4A1 protein, His & S-tagged

Cat. No. COL4A1-611H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human COL4A1 aa. (His1444~Thr1669 (Accession # P02462)) fused with N-terminal His & S tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	His1444~Thr1669
Description	This gene encodes a type IV collagen alpha protein. Type IV collagen proteins are integral components of basement membranes. This gene shares a bidirectional promoter with a paralogous gene on the opposite strand. The protein consists of an amino-terminal 7S domain, a triple-helix forming collagenous domain, and a carboxy-terminal non-collagenous domain. It functions as part of a heterotrimer and interacts with other extracellular matrix components such as perlecan, proteoglycans, and laminins. In addition, proteolytic cleavage of the non-collagenous carboxy-terminal domain results in a biologically active fragment known as arresten, which has anti-angiogenic and tumor suppressor properties. Mutations in this gene cause porencephaly, cerebrovascular disease, and renal and muscular defects. Alternative splicing results in multiple transcript variants.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 30.7kDa

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Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>95%
Characteristic	The isoelectric point is 6.7.
Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate. 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 rate 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.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% sucrose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	COL4A1 collagen type IV alpha 1 chain [Homo sapiens (human)]
Official Symbol	COL4A1
Synonyms	COL4A1; collagen type IV alpha 1 chain; BSVD; RATOR; collagen alpha-1(IV) chain; COL4A1 NC1 domain; arresten; collagen IV, alpha-1 polypeptide; collagen of basement membrane, alpha-1 chain
Gene ID	1282

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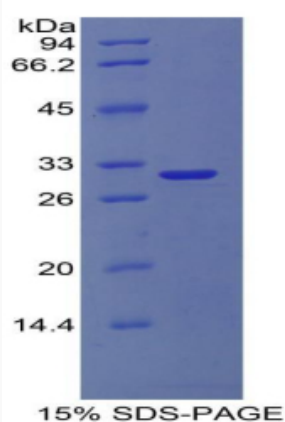
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mRNA Refseq [NM_001303110.1](#)

Protein Refseq [NP_001290039.1](#)

UniProt ID [P02462](#)

SDS-PAGE



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