



# Recombinant Bovine Collagen alpha-4 (IV) chain (COL4A4)

<b>Product Code</b>	CSB-EP639053BO
<b>Abbreviation</b>	COL4A4
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q29442
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Bos taurus (Bovine)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	GPPGPPGAPG KALKGDIPDP GLPGDQGGPPG PDGPRGVPGP PGPPGSVDLL KGEPGDCGLP GPPGLPGPPG PPGHKGFPGC DGKHGQKGPM GFPGPQGGPPG SPGPPGDKGL PGPPGRRGPL GPPGSRGEPG PPADLDACPR IPGLPGVPGP RGPEGTMGLP GMRGPPGPGC KGEPGLDGRR GEDGLPGSPG PPGHKGDMGE AGCPGAPGPP GPMGDPGPIG FGPGYLSGFL LVLHSQTDGE PTCPMGM PRL WTGYSLLYLE GQERAHNQDL GLAGSCLPIF STLPFAYCNI HQVCHYARRN DRSYWLASTA PLPMTPLSED EIRPYISRCA VCEAPAQAVA VHSQDQSIPP CPRAWRS LWI GYSFLMHTGA GDQGGGQALM SPGSCLEDFR AAPFLECQGR QGTCHFFANK YSFWLTTVRP DLQFSSAPLP DTLKESHAQR QKISRCQVCV KHS
<b>Source</b>	E.coli
<b>Target Names</b>	COL4A4
<b>Protein Names</b>	Recommended name: Collagen alpha-4(IV) chain
<b>Expression Region</b>	1-453
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	full length protein
<b>Target Details</b>	This gene encodes one of the six subunits of type IV collagen, the major structural component of basement membranes. This particular collagen IV subunit, however, is only found in a subset of basement membranes. Like the other members of the type IV collagen gene family, this gene is organized in a head-to-head conformation with another type IV collagen gene so that each gene pair shares a common promoter. Mutations in this gene are associated with type II autosomal recessive Alport syndrome (hereditary glomerulonephropathy) and with familial benign hematuria (thin basement



membrane disease). Two transcripts, differing only in their transcription start sites, have been identified for this gene and, as is common for collagen genes, multiple polyadenylation sites are found in the 3' UTR.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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