



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

Product Code	CSB-YP639053BO
Abbreviation	COL4A4
Storage	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.
Uniprot No.	Q29442
Product Type	Recombinant Protein
Immunogen Species	Bos taurus (Bovine)
Purity	>85% (SDS-PAGE)
Sequence	GPPGPPGAPG KALKGDIPDP GLPGDQGPPG 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 CPRAWRLWI GYSFLMHTGA GDQGGGQALM SPGSCLEDFR AAPFLECQGR QGTCHFFANK YSFWLTTVRP DLQFSSAPLP DTLKESHAQR QKISRCQVCV KHS
Source	Yeast
Target Names	COL4A4
Protein Names	Recommended name: Collagen alpha-4(IV) chain
Expression Region	1-453
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	full length protein
Target Details	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.

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.

Shelf Life

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