



Recombinant Mouse Collagen alpha-1 (X) chain (Col10a1)

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| Product Code | CSB-EP005715MO-B |
| Storage | Store at -20°C, for extended storage, conserve at -20°C or -80°C. |
| Uniprot No. | Q05306 |
| Product Type | Recombinant Protein |
| Immunogen Species | Mus musculus (Mouse) |
| Purity | >85% (SDS-PAGE) |
| Sequence | <p>MF YAERYQTPTG IKGPLASPKT QYFIPYAIKS KGIPVRGEQG IPGPPGPTGP RGHPGPGSGPP GKPGYGSPLG QGEPGLPGPP GISATGKPLG PGPPGKPGER GPYGHKGDIG PAGLPGPRGP PGPPGIPGPA GISVPGKPGQ QGLTGAPGPR GFPGEKGAQG APGVNKRKGE TGYGSPGRPG ERGLPGPQGP IGPPGSGVG RRGENGFPQ PGIKGDRGFP GEMGPSGPPG PQGPPGKQGR EGIGKPGAIG SPGQPGIPGE KGHPGAPGIA GPPGAPGFGK QGLPGLRGQR GPAGLPGAPG AKGERGPAGH PGEPGLPGSP GNMGPQGPKG IPGNHGIPGA KGEIGLVGPA GPPGARGARG PPGLDGKTGY PGEPGLNGPK GNPGLPGQKG DPGVGGTPGL RGPVGPVGA GVPGHNGEAG PRGEPGIPGT RGPTGPPGVP GFPGSKGDPG NPGAPGPAI ATKGLNGPTG PPGPPGPRGH SGEPGLPGPP GPPGPPGQAV MPDGFKAGQ RPRLSGMPLV SANHGVTGMP VSAFTVILSK AYPAVGAPIP FDEILYNRQQ HYDPRSGIFT CKIPGIYYFS YHVHVKGTHV WVGLYKNGTP TMYTYDEYSK GYLDQASGSA IMELTENDQV WLQLPNAESN GLYSSEYVHS SFSGFLVAPM</p> |
| Source | E.coli |
| Target Names | Col10a1 |
| Protein Names | Recommended name: Collagen alpha-1(X) chain |
| Expression Region | 19-680 |
| 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 of Mature Protein |
| Target Details | This gene encodes the alpha chain of type X collagen, a short chain collagen expressed by hypertrophic chondrocytes during endochondral ossification. Unlike type VIII collagen, the other short chain collagen, type X collagen is a homotrimer. Mutations in this gene are associated with Schmid type metaphyseal chondrodysplasia (SMCD) and Japanese type spondylometaphyseal dysplasia (SMD). |
| 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

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.