



Recombinant Human COL10A1 Protein Product Manual

1. Product Basic Information

Product No.: REP06512

Protein Name: Collagen Alpha-1(X) Chain (COL10A1)

Aliases: collagen alpha-1(X) chain; collagen X, alpha-1 polypeptide; Schmid metaphyseal chondrodysplasia

UniProt ID: Q03692

UniProt Link: <https://www.uniprot.org/uniprotkb/Q03692/entry>

Species Source: Homo sapiens (Human)

Expression System: Yeast

Protein Length: Full Length of Mature Protein (19-680)

Molecular Weight:

Protein Tag: Tag type will be determined during the manufacturing process. The tag type will be determined during production process. If you have specified tag type, please tell us and we will develop the specified tag preferentially.

2. Amino Acid Sequence (19-680)

VFYAERYQMPTGIKGPLNKTQFFIPYTIKSKGIAVRGEQGTPGPPGPAGPRGHP
GPSGPPGKPGYGSPGLQGEPLPGPPGPSAVGKPGVPGLPGKPGERGPYGPKG
DVGPAGLPGPRGPPGPPGIPGPAGISVPKPGQQGPTGAPGPRGFPGKEKGAPGV
PGMNGQKMGEMGYGAPGRPGERGLPGPQGPTGPSGPPGVGKRGENGVPQQPGIK
GDRGFPGEMGPIGPPGPQGPGERGPEGIGKPGAAGAPGQPGIPGKGLPGAPGI
AGPPGPPGFGKPLPGLKGERGPAGLPGGPGAKGEQGPAGLPKPGLTGPPGN
MGPQGPKGIPGSHGLPGPKGETGPAGPAGYPGAKGERGSPGSDGKPGYPGKPG
LDGPKGNPGLPGPKGDPGVGGPPGLPGVPAGAKGMPGHNGEAGPRGAPGIP
GTRGPIGPPGIPGFPKSGDPGSPGPPGAGIATKGLNGPTGPPGPPGPRGHSGE
PGLPGPPGPPGPPGQAVMPEGFIKAGQRPSLSGTPLVSANQGVTGMPVSAFTVILS
KAYPAIGTPIPFDKILYNRQQHYDPRTGIFTQCIPGIYYFSYHVHVKGTHVWVGLYKN
GTPVMYTYDEYTKGYLDQASGSAIDL TENDQVWLQLPNAESNGLYSSEYVHSSFS
GFLVAPM



3. Storage Buffer

Liquid Delivery Form: Tris/PBS-based buffer with 5%-50% glycerol. Custom glycerol content is available upon customer request (please specify requirements when placing orders).

Lyophilized Powder Delivery Form: Pre-lyophilization buffer is Tris/PBS-based buffer containing 6% Trehalose.

4. Storage Conditions

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

5. Product Description

This product is a recombinant Human COL10A1 full length of mature protein protein (19-680) expressed in Yeast. COL10A1, also known as collagen alpha-1(X) chain or collagen X, alpha-1 polypeptide or Schmid metaphyseal chondrodysplasia, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.