

Human COL5A2 Protein (Fc Tag)

Catalog Number: 13685-H05H



Sino Biological Inc.
Biological Solution Specialist

General Information

Gene Name Synonym:

1110014L14Rik; D230017N05

Protein Construction:

A DNA sequence encoding the human COL5A2(P05997)(Met1-Leu1229) was fused with Fc region of mouse IgG at the C-terminus.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: (26.7+59.2) % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Gln 27

Molecular Mass:

The recombinant human COL5A2/mFc is a disulfide-linked homodimer. The reduced monomer comprises 1437 amino acids and has a predicted molecular mass of 138.6 kDa. The apparent molecular mass of the protein is approximately 75 and 60 in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

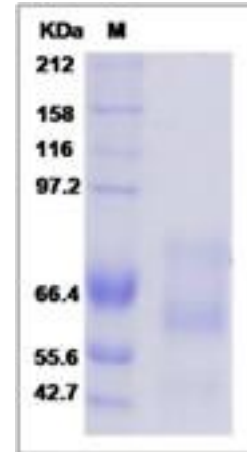
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

COL5A2 is a component of type V collagen. It is known as the pro-alpha2(V) chain. COL5A2, together with two pro-alpha1(V) chains can form type V procollagen. These triple-stranded, rope-like procollagen molecules arrange themselves into long, thin fibrils that cross-link to one another in the spaces around cells. The cross-links result in the formation of very strong, mature type V collagen fibers. Type V collagen can be detected in tissues containing type I collagen and appears to regulate the assembly of heterotypic fibers composed of both type I and type V collagen.

References

1. Greenspan DS. et al., 1992, Genomics. 12 (4): 836-7.
2. Mann K. 1992, Biol Chem Hoppe-Seyler. 373 (2): 69-75.
3. Greenspan DS. et al., 1992, Gene Expr. 1 (1): 29-39.

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