

Rat COL4A3 Protein (Fc Tag)

Catalog Number: 80439-R01H



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

alpha3(IV); [a]3(IV)

Protein Construction:

A DNA sequence encoding the rat COL4A3 (NP_001129231) (Gly1426-His1670) was expressed with Fc region of human IgG1 at the N-terminus.

Source: Rat

Expression Host: Human Cells

QC Testing

Purity: > 85 % 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: Glu

Molecular Mass:

The recombinant rat COL4A3 comprises 505 amino acids and predicts a molecular mass of 55.2 kDa. The apparent molecular mass of the recombinant protein is approximately 59 kDa in SDS-PAGE under reducing conditions due to glycosylation.

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:

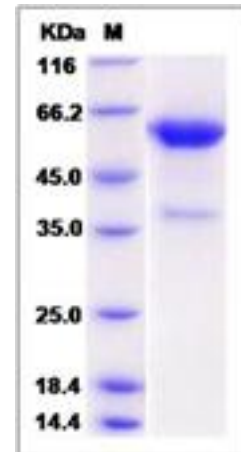
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

COL4A3 is a major structural component of basement membranes. It is composed of 3 alpha subunits, which are encoded by 6 different genes, alpha 1 through alpha 6. Each of these alpha subunits can form a triple helix structure with 2 other subunits to form COL4A3. Autoantibodies bind to the collagen molecules in the basement membranes of alveoli and glomeruli can cause goodpasture syndrome. COL4A3 is also linked to an autosomal recessive form of alport syndrome. COL4A3 is organized in a head-to-head conformation and each gene pair shares a common promoter.

References

1. Ghebrehiwet B. et al., 1992, J Leukoc Biol. 51 (6): 546-56.
2. Maziers N. et al., 2006, Nephrol Ther. 1 (2): 90-100.
3. Rana K. et al., 2005, Semin Nephrol. 25 (3): 163-70.

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