

Human COL2A1 (aa 1242-1487, His Tag) recombinant protein



Catalog Number: 502607

General Information

Gene Name Synonym

Alpha-1 type II collagen; Collagen alpha-1(II) chain; Chondrocalcin

Protein Construction

A DNA sequence encoding the amino acids (Asp 1242-Leu 1487) of human COL2A1 isoform 1 (P02458-2), known as chondrocalcin, was expressed, with a polyhistidine tag at the N-terminus.

Organism

Human

Expression Host

Human Cells

QC Testing

Purity

> 92 % 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

His

Molecular Mass

The recombinant human COL2A1 (aa 1242-1487), known as chondrocalcin consists of 265 amino acids and has a calculated molecular mass of 29.8 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of the protein is approximately 37 kDa due to glycosylation.

Formulation

Lyophilized from sterile PBS, pH 7.4

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

Usage Guide

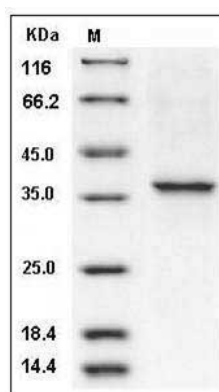
Storage

Store it under sterile conditions at -20°C to -80°C . It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE



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SDS-PAGE