

# Recombinant Human COL9A1 Protein (Fc Tag)

Catalog Number:PKSH030873



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

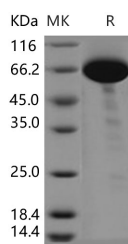
## Description

|                                    |  |
|------------------------------------|--|
| <b>Synonyms</b>                    | DJ149L1.1.2;EDM6;MED;STL4;Collagen alpha-1(IX) chain;DJ149L1.1.2 |
| <b>Species</b>                     | Human  |
| <b>Expression Host</b>             | HEK293 Cells   |
| <b>Sequence</b>                    | Met 1-Pro328   |
| <b>Accession</b>                   | P20849-3   |
| <b>Calculated Molecular Weight</b> | 59.2 kDa   |
| <b>Observed molecular weight</b>   | 62-72 kDa  |
| <b>Tag</b>                         | C-mFc  |

## Properties

|                       |   |
|-----------------------|---|
| <b>Purity</b>         | > 95 % as determined by reducing SDS-PAGE.  |
| <b>Endotoxin</b>      | < 1.0 EU per µg of the protein as determined by the LAL method.   |
| <b>Storage</b>        | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |
| <b>Shipping</b>       | This product is provided as lyophilized powder which is shipped with ice packs.   |
| <b>Formulation</b>    | Lyophilized from sterile PBS, pH 7.4<br>Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual.            |
| <b>Reconstitution</b> | Please refer to the printed manual for detailed information.  |

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

Ubiquinone biosynthesis protein COQ7 homolog; also known as Coenzyme Q biosynthesis protein 7 homolog; Timing protein clk-1 homolog and COQ7; is a mitochondrion inner membrane and peripheral membrane protein which belongs to the COQ7 family. It is expressed dominantly in heart and skeletal muscle. COQ7 is synthesized as a preprotein that is imported into the mitochondrial matrix; where the sequence is cleaved off and the mature protein becomes loosely associated with the inner membrane. This enzyme is responsible for the hydroxylation of 5-demethoxyubiquinone to 5-hydroxyubiquinone. Human COQ7 protein is mostly helical; and contains an alpha-helical membrane insertion. It has a potential N-glycosylation site; a phosphorylation site for protein kinase C and another for casein kinase II; and three N-myristoylation sites. COQ7 is involved in lifespan determination in ubiquinone-independent manner. It is also involved in

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ubiquinone biosynthesis. COQ7 is potential central metabolic regulator.

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