

# Recombinant Human COL9A1 Protein (Fc Tag)

Catalog Number:PKSH030873



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

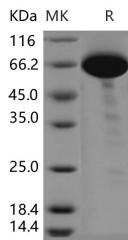
## Description

<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 $\mu$ g 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 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



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## Background

Ubiquinone biosynthesis protein COQ7 homolog; also known as Coenzyme Q biosynthesis protein 7 homolog; Timing protein clk-1 homolog and COQ7; is a mitochondrial 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-myristylation 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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