

## General Information

### Gene Name Synonym

Neural apoptosis-regulated convertase 1;  
Proprotein convertase 9; Subtilisin/kexin-like  
protease PC9

### Protein Construction

A DNA sequence encoding the human proprotein  
convertase 9 (AAV67948.1) (Met 1-Gln 692) was  
expressed with a C-terminal polyhistidine tag.

### Organism

Human

### Expression Host

Human Cells

## QC Testing

### Activity

Measure by its ability to bind with human LDLR in  
a functional ELISA. Immobilized recombinant  
human PCSK9 at 10 µg/ml (100 µl/well) can bind  
biotinylated human LDLR. The EC<sub>50</sub> of biotinylated  
human LDLR is 0.61 µg/ml.

### Purity

> 97 % 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 31

## Molecular Mass

The recombinant human PCSK9 consists of 662  
amino acids and predicts a molecular mass of 72.6  
kDa. As a result of glycosylation and proteolytic  
digestion, rhPCSK9 migrates as doublet with  
apparent molecular mass of 20 kDa and 62 kDa  
respectively in SDS-PAGE under reducing  
conditions.

## 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

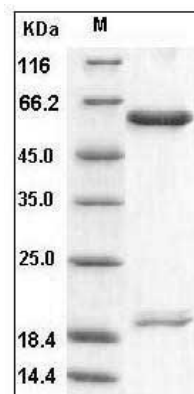
### Storage

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



Human PCSK9 / NARC1 Protein (His Tag) SDS-  
PAGE