

# Mouse PCSK9 / NARC1 Protein (His Tag)

Catalog Number: 50251-M08H



Sino Biological  
Biological Solution Specialist

## General Information

### Gene Name Synonym:

AI415265; AI747682; FH3; HCHOLA3; Narc1; PC9

### Protein Construction:

A DNA sequence encoding the full length of mouse PCSK9 (NP\_705793.1) precursor (Met 1-Gln 694) was expressed, with a C-terminal polyhistidine tag.

Source: Mouse

Expression Host: HEK293 Cells

## QC Testing

Purity:  $\geq 95\%$  as determined by SDS-PAGE.  $\geq 90\%$  as determined by SEC-HPLC.

### Bio Activity:

**Immobilized Recombinant Human LDL Receptor Protein (Fc Tag) (Cat: 10231-H05H) at 2  $\mu\text{g/mL}$  (100  $\mu\text{L/well}$ ) can bind Recombinant Mouse PCSK9 / NARC1 Protein (His Tag) (Cat: 50251-M08H), the EC<sub>50</sub> is 40-120 ng/mL.**

### Endotoxin:

< 1.0 EU per  $\mu\text{g}$  of the protein as determined by the LAL method

### Stability:

Samples are stable for up to twelve months from date of receipt at  $-70^\circ\text{C}$

Predicted N terminal: Gln 35

### Molecular Mass:

The secreted recombinant mouse PCSK9 consists of 671 amino acids and has a calculated molecular mass of 72.6 kDa. As a result of proteolysis and glycosylation, the recombinant protein migrates as doublet with apparent molecular mass of approximately 19 & 65 kDa, corresponding to the prodomain and the mature form of PCSK9 respectively in SDS-PAGE under reducing conditions.

### Formulation:

Lyophilized from sterile 50 mM Tris, 150 mM NaCl, 10% Glycerol, pH 7.9.

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:

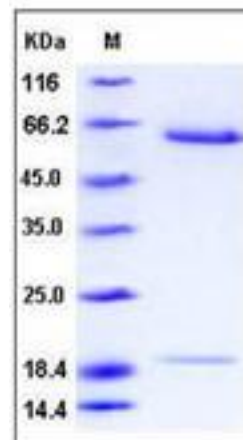
Store it under sterile conditions at  $-20^\circ\text{C}$  to  $-80^\circ\text{C}$  upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## Protein Description

Proprotein convertase subtilisin/kexin type 9 (PCSK9), also known as NARC1 (neural apoptosis regulated convertase), which is a newly identified human secretory subtilase belonging to the proteinase K subfamily of the secretory subtilase family. PCSK9 protein is an enzyme which in humans is encoded by the PCSK9 gene with orthologs found across many species. It is expressed in neuroepithelioma, colon carcinoma, hepatic and pancreatic cell lines, and in Schwann cells. PCSK9 protein is highly expressed in the liver and regulates low density lipoprotein receptor (LDLR) protein levels. Inhibition of PCSK9 protein function is currently being explored as a means of lowering cholesterol levels. Thereby, PCSK9 protein is regarded as a new strategy to treat hypercholesterolemia. PCSK9 protein contributes to cholesterol homeostasis and may have a role in the differentiation of cortical neurons. References

## References

- 1.Sseidah, N.G. et al., 2003, Proc. Natl. Acad. Sci. USA. 100: 928-933.
- 2.Beyer, T.P. et al., 2007, J. Lipid. Res. 48: 1488-1498
- 3.Shan, L. et al., 2008, Biochem. Biophys. Res. Commun. 375: 69-73.

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