

Recombinant Rhesus PCSK9 Protein (Met1-Gln692), MIgG1 Fc-tagged

Cat. No. PCSK9-486R **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant Rhesus PCSK9 Protein (NP_001106130.1) (Met1-Gln692) was produced by HEK293 Cells expression system. This protein was expressed with the Fc region of mouse IgG1 at the C-terminus.

Species Rhesus macaque

Source HEK293

ProteinLength Met1-Gln692

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.

Predicted N Terminal Gln 31

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Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Molecular Mass	The recombinant rhesus PCSK9 consists of 896 amino acids and predicts a molecular mass of 97.7 kDa.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method
Purity	> 90 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
Storage	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	PCSK9 proprotein convertase subtilisin/kexin type 9 [<i>Macaca mulatta</i> (Rhesus monkey)]
Official Symbol	PCSK9

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Synonyms	PC9;
Gene ID	717147
mRNA Refseq	NM_001112660
Protein Refseq	NP_001106130
MIM	607786
UniProt ID	A8T666

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