Recombinant Rat PCSK9 Protein

Catalog No.: RP01685

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Sequence Information

Species
Rat

Gene ID
298296

Swiss Prot
P59996

Tags
C-6His

Synonyms
PC9; Narc1; NARC-1; PCSK9

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
72.17 kDa

Observed MW
15-25, 60-75 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

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.

Basic Information

Description
Recombinant Rat PCSK9 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln 31 - Gln 691) of rat PCSK9 (Accession #NP_954862.2) fused with and a 6×His tag at the C-terminus.

Activity
Measured by its binding ability in a functional ELISA. Immobilized Mouse LDLR (Catalog: RP01504) at 5 μg/mL (100 μL/well) can bind Rat PCSK9(Catalog: RP01685) with a linear range of 4.88-353.16 ng/mL.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

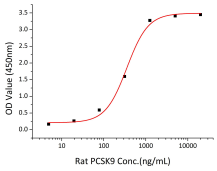
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

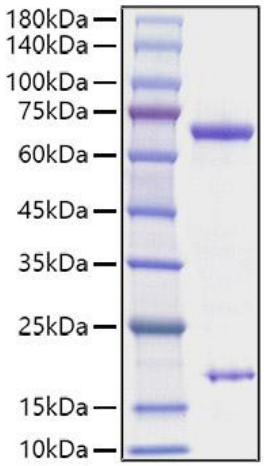
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Validation Data



Immobilized Mouse LDLR(Catalog: RP01504) at 5 μg/mL (100 μL/well) can bind Rat PCSK9(Catalog: RP01685) with a linear range of 4.88-353.16 ng/mL.



Recombinant Rat PCSK9 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.