

Recombinant Human PCSK9 protein, Fc-tagged

Cat. No. PCSK9-350H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PCSK9 protein (Gln31-Gln692), fused to human IgG1 Fc tag at C-terminus, was expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	662
Description	Proprotein convertase subtilisin/kexin type 9 (PCSK9), is an enzyme which in humans is encoded by the PCSK9 gene. This gene encodes a proprotein convertase belonging to the proteinase K subfamily of the secretory subtilase family. This protein plays a major regulatory role in cholesterol homeostasis. PCSK9 binds to the epidermal growth factor-like repeat A (EGF-A) domain of the low-density lipoprotein receptor (LDLR), inducing LDLR degradation. PCSK9 may also have a role in the differentiation of cortical neurons. Mutations in this gene have been associated with a rare form of autosomal dominant familial hypercholesterolemia (HCHOLA3).
Form	Lyophilized from 0.22 um filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 97.5 kDa. The protein migrates as 100 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per ug by the LAL method.

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Purity	>90% as determined by SDS-PAGE.
Storage	<p>For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <p>-20 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.</p>
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

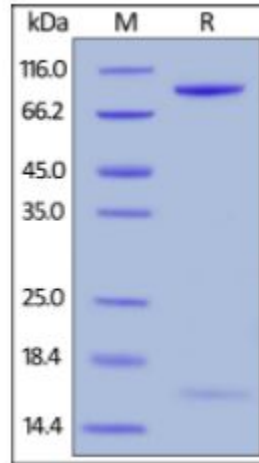
Gene Name	PCSK9
Official Symbol	PCSK9
Synonyms	FH3; PC9; FHCL3; NARC1; LDLCQ1; NARC-1; HCHOLA3
Gene ID	255738
mRNA Refseq	NM_174936.4
Protein Refseq	NP_777596.2
MIM	607786
UniProt ID	Q8NBP7

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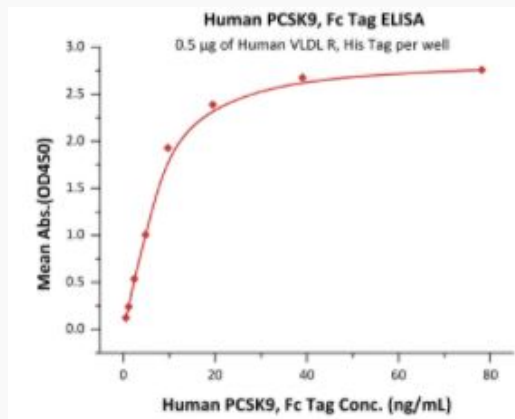
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**SDS-PAGE of
PCSK9-350H**



Human PCSK9, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

**Bioactivity-ELISA of
PCSK9-350H**



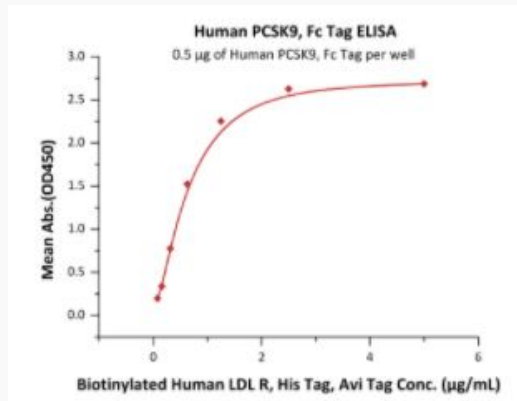
Immobilized Human VLDL R, His Tag at 5 µg/mL (100 µL/well) can bind Human PCSK9, Fc Tag with a linear range of 1-10 ng/mL (QC tested).

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**Bioactivity-ELISA of
PCSK9-350H**



Immobilized Human PCSK9, Fc Tag at 5 µg/mL (100 µL/well) can bind Biotinylated Human LDLR, His Tag, Avi Tag with a linear range of 0.04-0.625 µg/mL (Routinely tested).

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