Active Recombinant Human PCSK9 Protein, His & Avi-tagged, Biotinylated

Cat. No. PCSK9-352H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PCSK9 Protein, His & Avi-tagged, Biotinylated is expressed from human HEK293 cells. It contains AA Gln 31 - Gln 692 (Accession # AAI66619). Predicted N-terminus: Gln 31. This protein carries an Avi tag at the C-terminus, followed by a polyhistidine tag. The protein has a calculated MW of 72.0 kDa. The protein migrates as 20 kDa and 66 kDa on a SDS-PAGE gel under reducing (R) condition due to glycosylation and proteolytic digestion. The biotin to protein ratio is 0.5-1 as determined by the HABA assay.
Species	Human
Source	HEK293
ProteinLength	Gln 31 - Gln 692
Form	Lyophilized from 0.22 μm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.
Bio-activity	Immobilized Human LDL R, His Tag at 10 μg/mL (100 μL/well) can bind Recombinant Human PCSK9 Protein, His & Avi-tagged, Biotinylated with a linear range of 2-31 ng/mL (QC tested). Recombinant Human PCSK9 Protein, His & Avi-tagged, Biotinylated can bind anti-Human PCSK9 Mab, Human IgG1 with a linear range of 0.05-1.5 ng/mL. The biotinylated PCSK9 is coated at 1 ug/mL (100 uL/well) on a streptavidin coated plates

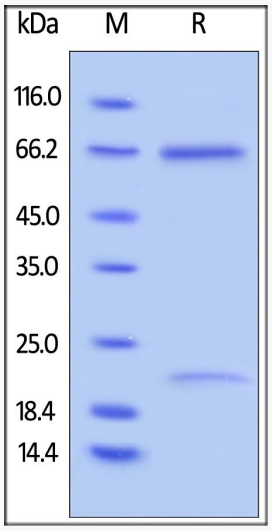
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	(Routinely tested). Immobilized Human VLDL R, His Tag at 5 μg/mL (100 μL/well) can bind Recombinant Human PCSK9 Protein, His & Avi-tagged, Biotinylated with a linear range of 10-156 ng/mL (Routinely tested). FACS analysis shows that Biotinylated Human PCSK9, His Tag (Cat. No. PC9-H82E7) inhibits LDL uptake in HepG2 cells. The EC50 for this effect is 1.502-2.378 μg/mL.
Molecular Mass	72.0 kDa
Endotoxin	Less than 1.0 EU per μg by the LAL method.
Purity	>92% as determined by reduced SDS-PAGE.
Notes	Please avoid repeated freeze-thaw cycles.
Stability	No activity loss is observed after storage at: 4-8 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.
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 centigrade before opening to recover the entire contents.
Conjugation	Biotin

GENE INFORMATION

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Gene Name	PCSK9 proprotein convertase subtilisin/kexin type 9 [Homo sapiens]
Official Symbol	PCSK9
Synonyms	PCSK9; proprotein convertase subtilisin/kexin type 9; FH3; NARC 1; NARC1; NARC-1; HCHOLA3;
Gene ID	353175
MIM	607786
UniProt ID	Q8NBP7



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