

Non-biotinylated Human PCSK9 (D374Y) Protein

Cat. No. PCS-HM19Y



Description

Source	Recombinant Human PCSK9 (D374Y) Protein is expressed from HEK293 with His tag and Avi tag at the C-terminus.
	It contains Gln31-Gln692.
Accession	Q8NBP7-1
Molecular Weight	Due to autocatalytic cleavage, the protein release the mature chain (60 kDa) and pro-peptide (14 kDa). The protein migrates to 65-68 kDa (mature chain) and 15 kDa (pro-peptide) based on Bis-Tris PAGE result due to glycosylation.
Endotoxin	Less than 0.1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

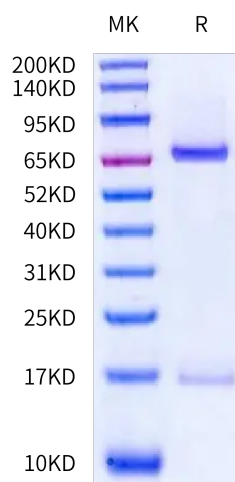
Formulation	Supplied as 0.22 µm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

PCSK9 was referred to as neural apoptosis-regulated convertase-1 (NARC1), achieved by amplifying mRNAs that potentially encoded a SKI-1/S1P equivalent. The cDNA of PCSK9, initially discovered in projects researching apoptosis in cerebellar neurons and secretory proteins, was eventually identified in human, mouse, and rat libraries. PCSK9, a member of the proteinase K family of subtilases, was thus named due to its solubility and its role in gene expression related to apoptosis. The mRNA of human PCSK9, which is 3,710 base pairs (bp) in length across 12 exons, encodes a protein with 692 aa. Subsequent detailed examination determined that the primary production sites of PCSK9 in humans, mice, and rats were the liver and small intestine. The three-dimensional (3D) structures of PCSK9 show three distinct domains: the prodomain (aa 31–152), the catalytic domain (aa 153–421), and the C-terminal Cys/His-rich domain (CHRD; aa 453–692), each playing a significant role in managing PCSK9's biological functions and its trafficking inside cells.

Assay Data

Bis-Tris PAGE



Human PCSK9 (D374Y) on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

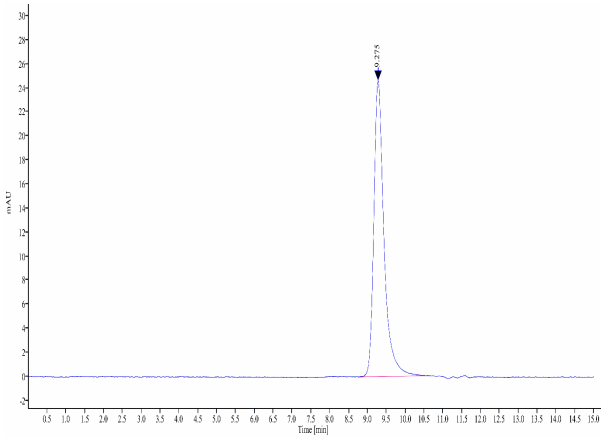
SEC-HPLC

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Assay Data



The purity of Human PCSK9 (D374Y) is greater than 95% as determined by SEC-HPLC.

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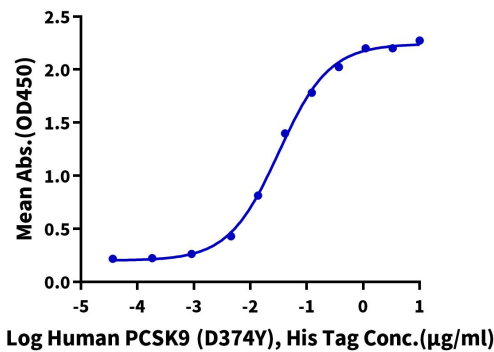


Assay Data

ELISA Data

Human PCSK9 (D374Y), His Tag ELISA

0.1µg Human LDLR, hFc Tag Per Well



Immobilized Human LDLR, hFc Tag (Cat. LDL-HM201) at 1µg/ml (100µl/well) on the plate. Dose response curve for Human PCSK9 (D374Y), His Tag with the EC50 of 32.1ng/ml determined by ELISA.