

Recombinant Human PCSK9 (D374Y) protein, His-tagged

Cat. No. PCSK9-2137H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PCSK9 (Gln31-Gln692, D374Y) protein was fused to His-tag at C-terminus and expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	Gln31-Gln692
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). Especially, the D374Y mutation results in higher affinity of PCSK9 for LDLR.
Predicted N Terminal	Gln31
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.
Molecular Mass	Human PCSK9 (D374Y) has a calculated MW of 72.0 kDa. The reducing (R) protein

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	migrates as 17 kDa and 66 kDa in SDS-PAGE due to glycosylation and proteoly digestion. The D374Y mutation results in higher affinity of PCSK9 for LDLR.
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>92% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
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	353175
mRNA Refseq	NM_174936.4
Protein Refseq	NP_777596.2

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MIM	607786
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UniProt ID	Q8NBP7
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