

## Recombinant Mouse Pcsk9, C13&N15-labeled

**Cat. No.** Pcsk9-243M    **Lot. No.** (See product label)

### SPECIFICATION

**Product Overview**      Recombinant Mouse PCSK9 MS Standard Protein, C13 and N15-labeled (Mouse PCSK9, Heavy Labeled) Gln 35 - Gln 694 (Accession # AAH38085.1) was produced in human 293 cells (HEK293).

**Species**                      Mouse

**Source**                        HEK293

**ProteinLength**              35-694 a.a.

**Description**                Proprotein convertase subtilisin/kexin type 9 (PCSK9), also known as NARC1 (neural apoptosis regulated convertase), is a newly identified subtilase belonging to the peptidase S8 subfamily. Mouse PCSK9 is synthesized as a soluble zymogen, and undergoes autocatalytic intramolecular processing in the endoplasmic reticulum, resulting in the cleavage of its propeptide that remains associated with the secreted active enzyme with a broad alkaline pH optimum. 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.[1] Mutations in this gene have been associated with a rare form of autosomal dominant familial hypercholesterolemia (HCHOLA3).[2-3]

**Form**                            Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally Mannitol or Trehalose are added as protectants before lyophilization.

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<b>Molecular Mass</b>	Mouse PCSK9, Heavy Labeled, fused with 6xHis tag at the C-terminus, has a calculated MW of 72 kDa. The predicted N-terminus is Gln 35. DTT-reduced Protein migrates as 20 kDa and 64 kDa due to glycosylation and proteolytic digestion.
<b>Endotoxin</b>	Less than 1.0 EU per µg of the Mouse PCSK9, Heavy Labeled by the LAL method.
<b>Purity</b>	>97% as determined by SDS-PAGE.
<b>Storage</b>	Avoid repeated freeze-thaw cycles.No activity loss was observed after storage at:In lyophilized state for 1 year (4oC-8oC); After reconstitution under sterile conditions for 1 month (4oC-8oC) or 3 months (-20oC to -70oC).

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Pcsk9 proprotein convertase subtilisin/kexin type 9 [ Mus musculus ]</a>
<b>Official Symbol</b>	Pcsk9
<b>Synonyms</b>	PCSK9; proprotein convertase subtilisin/kexin type 9; NARC-1; convertase subtilisin; proprotein convertase 9; proprotein convertase PC9; subtilisin/kexin-like protease PC9; neural apoptosis regulated convertase 1; neural apoptosis-regulated convertase 1; FH3; PC9; Narc1; HCHOLA3; AI415265; AI747682; MGC47409;
<b>Gene ID</b>	<a href="#">100102</a>
<b>mRNA Refseq</b>	<a href="#">NM_153565</a>
<b>Protein Refseq</b>	<a href="#">NP_705793</a>
<b>Pathway</b>	NGF processing, organism-specific biosystem; Signal Transduction, organism-specific biosystem; Signalling by NGF, organism-specific biosystem;

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**Function**

apolipoprotein receptor binding; hydrolase activity; identical protein binding; low-density lipoprotein particle receptor binding; low-density lipoprotein particle receptor binding; peptidase activity; serine-type endopeptidase activity; serine-type endop

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