# Recombinant Mouse Pcsk9, His-tagged, C13&N15 Labeled

**Cat. No.** Pcsk9-197M **Lot. No.** (See product label)

## SPECIFICATION

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| **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) with fully chemically defined cell culture medium to obtain >99% incorporation |
| **Species** | Mouse |
| **Source** | HEK293 |
| **ProteinLength** | 35-694 a.a. |
| **Description** | Proprotein convertase subtilisin/kexin type 9 (PCSK9) is 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. Mutations in this gene have been associated with a rare form of autosomal dominant familial hypercholesterolemia (HCHOLA3). |
| **Predicted N Terminal** | Gln 35 |

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| **Form** | Lyophilized from 0.22 μm filtered solution in PBS, pH7.4. Normally Mannitol or Trehalose are added as protectants before lyophilization. |
| **Molecular Mass** | Mouse PCSK9, Heavy Labeled is fused with polyhistidine tag at the C-terminus, and has a calculated MW of 72 kDa. The predicted N-terminus is Gln 35. DTT-reduced Protein migrates as 20 kDa and 64 kDa in SDS-PAGE due to glycosylation and proteolytic digesti |
| **Endotoxin** | Less than 1.0 EU per μg of the Mouse PCSK9, Heavy Labeled by the LAL method. |
| **Purity** | >97% as determined by SDS-PAGE. |
| **Applications** | MS Standard Protein |
| **Storage** | Avoid repeated freeze-thaw cycles.No activity loss was observed after storage at:In lyophilized state for 1 year (4oC); After reconstitution under sterile conditions for 3 months (-70oC). |

## GENE INFORMATION

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| **Gene Name** | Pcsk9 proprotein convertase subtilisin/kexin type 9 [ Mus musculus ] |
| **Official Symbol** | Pcsk9 |
| **Synonyms** | 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; |
| **Gene ID** | 100102 |

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| **mRNA Refseq** | NM_153565 |
| **Protein Refseq** | NP_705793 |
| **Pathway** | NGF processing, organism-specific biosystem; Signal Transduction, organism-specific biosystem; Signalling by NGF, organism-specific biosystem; |
| **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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