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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Molecular Mass	Mouse PCSK9, Heavy Labeled, fused with 6×His 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.
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.
Storage	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

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
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;

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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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