Active Recombinant Mouse Pcsk9 protein, His-tagged

Cat. No. Pcsk9-259M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Pcsk9(pro domain: Gln35-Gln155; mature form: Ser156-Gln694) fused with His tag at C-terminal was expressed in NS0.
Species	Mouse
Source	Mammalian Cells
ProteinLength	35-155;156-694 a.a.
Description	PCSK9 (proprotein convertase subtilisin kexin 9), also known as NARC-1, is a member of the proteinase K subfamily of subtilisin-related serine endoproteases. It is highly expressed in the liver, intestine, and kidney and plays an important role in regulating LDL R expression and circulating cholesterol levels. PCSK9 is synthesized as precursor protein that is autocatalytically cleaved in the endoplasmic reticulum to generate a 14 kDa prodomain and a 60 kDa catalytic domain. Within the secretion pathway, the prodomain remains associated with and functions as a chaperone for the catalytic domain. Mouse PCSK9 shares 78% and 93% amino acid identity with human and rat PCSK9, respectively. PCSK9 plays a key role in the regulation of cholesterol metabolism by binding to hepatic LDL R, LRP-1, VLDL R, and Apolipoprotein E R2 and promoting their lysosomal degradation instead of recycling to the plasma membrane. It can also regulate cholesterol and triglyceride handling in the intestine and adipose tissue. The ability of PCSK9 to regulate LDL R expression is inhibited by its binding to LDL particles or Annexin A2 or by additional proteolytic cleavage.

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Predicted N Terminal	Ser156 (mature form); No results obtained for pro domain, Gln35 inferred from enzymatic pyroglutamate treatment revealing Asp36
Form	Supplied as a 0.2 μm filtered solution in Tris, NaCl and Glycerol.
Bio-activity	Measured by its binding ability in a functional ELISA. When Recombinant Mouse LDLR is coated at 2 μg/mL, Recombinant Mouse Proprotein Convertase 9/PCSK9 binds with an ED50 = 25-150 ng/mL.
Molecular Mass	Predicted Molecular Mass: 14 (pro domain) and 59 (mature form) kDa SDS-PAGE: 18 kDa (pro domain) and 57-67 kDa (mature form), reducing conditions
Endotoxin	<0.1 EU per 1 μg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 centigrade as supplied. 3 months, -20 to -70 centigrade under sterile conditions after opening.

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;

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Gene ID	100102
mRNA Refseq	NM_153565
Protein Refseq	NP_705793

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