Recombinant Mouse Pcsk9 Protein, MYC/DDK-tagged

Cat. No. Pcsk9-020M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of full-length mouse proprotein convertase subtilisin/kexin type 9 (Pcsk9), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Crucial player in the regulation of plasma cholesterol homeostasis. Binds to low-density lipid receptor family members: low density lipoprotein receptor (LDLR), very low density lipoprotein receptor (VLDLR), apolipoprotein E receptor (LRP1/APOER) and apolipoprotein receptor 2 (LRP8/APOER2), and promotes their degradation in intracellular acidic compartments. Acts via a non-proteolytic mechanism to enhance the degradation of the hepatic LDLR through a clathrin LDLRAP1/ARH-mediated pathway. May prevent the recycling of LDLR from endosomes to the cell surface or direct it to lysosomes for degradation. Can induce ubiquitination of LDLR leading to its subsequent degradation. Inhibits intracellular degradation of APOB via the autophagosome/lysosome pathway in a LDLR-independent manner. Involved in the disposal of non-acetylated intermediates of BACE1 in the early secretory pathway. Inhibits epithelial Na+ channel (ENaC)-mediated Na+ absorption by reducing ENaC surface expression primarily by increasing its proteasomal degradation. Regulates neuronal apoptosis via modulation of LRP8/APOER2 levels and related anti-apoptotic signaling pathways.

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Molecular Mass	74.8 kDa
Purity	>80%, as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 ug/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Pcsk9 proprotein convertase subtilisin/kexin type 9 [Mus musculus (house mouse)]
Official Symbol	Pcsk9
Synonyms	Pcsk9; proprotein convertase subtilisin/kexin type 9; FH3; PC9; Narc1; HCHOLA3; AI415265; AI747682; proprotein convertase subtilisin/kexin type 9; NARC-1; convertase subtilisin; neural apoptosis regulated convertase 1; proprotein convertase 9; proprotein convertase PC9; subtilisin/kexin-like protease PC9; EC 3.4.21.-
Gene ID	100102
mRNA Refseq	NM_153565
Protein Refseq	NP_705793
UniProt ID	Q80W65

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