Recombinant Mouse Pcsk1n Protein, Myc/DDK-tagged

Cat. No. Pcsk1n-4720M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length proprotein convertase subtilisin/kexin type 1 inhibitor (Pcsk1n), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	May function in the control of the neuroendocrine secretory pathway. Proposed be a specific endogenous inhibitor of PCSK1. ProSAAS and Big PEN-LEN, both containing the C-terminal inhibitory domain, but not the processed peptides reduce PCSK1 activity in the endoplasmic reticulum and Golgi. It reduces the activity of the 87 kDa form but not the autocatalytically derived 66 kDa form of PCSK1. Subsequent processing of proSAAS may eliminate the inhibition. Slows down convertase-mediated processing of proopiomelanocortin and proenkephalin. May control the intracellular timing of PCSK1 rather than its total level of activity. The function of the processed secreted peptides is not known.
Molecular Mass	27.3 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.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 μg/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	Pcsk1n proprotein convertase subtilisin/kexin type 1 inhibitor [Mus musculus (house mouse)]
Official Symbol	Pcsk1n
Synonyms	PCSK1N; proprotein convertase subtilisin/kexin type 1 inhibitor; proSAAS; IA-4; big SAAS; pro-SAAS; little LEN; big PEN LEN; little SAAS; basic protein IA-4; pancreas protein 3; proprotein convertase 1 inhibitor; granin-like neuroendocrine peptide; protein serine alanine alanine serine; KEP; PEN; Pan3; SAAS; bLEN; lLEN; PEN19; PEN20; SAASCT; AI848336; MGC19107
Gene ID	30052
mRNA Refseq	NM_013892
Protein Refseq	NP_038920
UniProt ID	Q9QXV0

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