

Active Recombinant Human PCSK1, His-tagged

Cat. No. PCSK1-87H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PCSK1 (Ser111-Arg617) fused with 10His tag at Cterminal, was expressed in Mouse NSO Cells.
Species	Human
Source	Mammalian Cells
ProteinLength	111-617 a.a.
Description	The protein encoded by this gene belongs to the subtilisin-like proprotein convertase family. The members of this family are proprotein convertases that process latent precursor proteins into their biologically active products. This encoded protein is a type I proinsulin-processing enzyme that plays a key role in regulating insulin biosynthesis. It is also known to cleave proopiomelanocortin, prorenin, proenkephalin, prodynorphin, prosomatostatin and progastrin. Mutations in this gene are thought to cause obesity. This encoded protein is associated with carcinoid tumors. Mutations in this gene have been associated with susceptibility to obesity and proprotein convertase 1/3 deficiency. Multiple transcript variants encoding different isoforms have been found for this gene.
Predicted N Terminal	Ser111
Form	Supplied as a 0.2 µ filtered solution in Tris, NaCl and Glycerol.
Bio-activity	Measured by its ability to cleave a fluorogenic peptide substrate, acetyl-Arg-Glu-Lys-A

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rg-7-amino-trifluoromethyl coumarin (Ac-REKR-AFC). The specific activity is >8 pmol/min/g, as measured under the described conditions.

Molecular Mass Predicted Molecular Mass: 57 kDa; SDS-PAGE:66 kDa, reducing conditions.

Endotoxin < 1.0 EU per 1 µg of the protein by the LAL method.

Purity >95%, by SDS-PAGE under reducing conditions and visualized by silver stain.

Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -70 °C as supplied. 3 months, -70 °C under sterile conditions after opening.

GENE INFORMATION

Gene Name PCSK1 proprotein convertase subtilisin/kexin type 1 [Homo sapiens(human)]

Official Symbol PCSK1

Synonyms PCSK1; PC1; PC3; NEC1; SPC3; BMIQ12; proprotein convertase subtilisin/kexin type 1; neuroendocrine convertase 1; NEC 1; prohormone convertase 1; prohormone convertase 3; EC 3.4.21.93

Gene ID 5122

mRNA Refseq NM_000439

Protein Refseq NP_000430

MIM 162150

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UniProt ID	P29120
Chromosome Location	5q15-q21
Pathway	Incretin Synthesis; Insulin Processing; Peptide hormone biosynthesis
Function	serine-type endopeptidase activity

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