

Recombinant Human PCSK2 Protein, His-tagged

Cat. No. PCSK2-2563H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PCSK2 Protein (Thr461-Ala597) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Thr461-Ala597
Description	This gene encodes a member of the subtilisin-like proprotein convertase family, which includes proteases that process protein and peptide precursors trafficking through regulated or constitutive branches of the secretory pathway. The protein undergoes an initial autocatalytic processing event and interacts with a neuroendocrine secretory protein in the ER, exits the ER and sorts to secretory granules, where it is cleaved and catalytically activated during intracellular transport. The encoded protease is packaged into and activated in dense core secretory granules and expressed in the neuroendocrine system and brain. This gene encodes one of the seven basic amino acid-specific members which cleave their substrates at single or paired basic residues. It functions in the proteolytic activation of polypeptide hormones and neuropeptides precursors. Single nucleotide polymorphisms in this gene may increase susceptibility to myocardial infarction and type 2 diabetes. This gene may also play a role in tumor development and progression. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.

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Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 18.9 kDa Accurate Molecular Mass: 18 kDa
Endotoxin	<1.0 EU per 1g (determined by the LAL method).
Purity	> 95%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	PCSK2 proprotein convertase subtilisin/kexin type 2 [Homo sapiens (human)]
Official Symbol	PCSK2

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Synonyms	PCSK2; proprotein convertase subtilisin/kexin type 2; NEC2; neuroendocrine convertase 2; KEX2 like endoprotease 2; PC2; SPC2; prohormone convertase 2; KEX2-like endoprotease 2; NEC 2; NEC-2;
Gene ID	5126
mRNA Refseq	NM_001201528
Protein Refseq	NP_001188457
MIM	162151
UniProt ID	P16519
	