

Active Recombinant Human PCSK2, His-tagged

Cat. No. PCSK2-88H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PCSK2 (Gly110-Asn638) fused with 6His tag at Cterminal, was expressed in CHO Cells.
Species	Human
Source	CHO
ProteinLength	110-638 a.a.
Description	This gene encodes a member of the subtilisin-like proprotein convertase family. These enzymes process latent precursor proteins into their biologically active products. The encoded protein plays a critical role in hormone biosynthesis by processing a variety of prohormones including proinsulin, proopiomelanocortin and proluteinizing-hormone-releasing hormone. 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.
Predicted N Terminal	Gly110
Form	Supplied as a 0.2 µ filtered solution in Tris, NaCl and CaCl ₂ .
Bio-activity	Measured by its ability to cleave the fluorogenic peptide substrate pERTKR-AMC. The specific activity is >60 pmol/min/g, as measured under the described conditions.

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Molecular Mass	59 kDa
Endotoxin	< 1.0 EU per 1 µg of the protein by the LAL method.
Purity	>90%, 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	PCSK2 proprotein convertase subtilisin/kexin type 2 [Homo sapiens (human)]
Official Symbol	PCSK2
Synonyms	PCSK2; PC2; NEC2; SPC2; NEC 2; NEC-2; proprotein convertase subtilisin/kexin type 2; neuroendocrine convertase 2; prohormone convertase 2; KEX2-like endoprotease 2; EC 3.4.21.94
Gene ID	5126
mRNA Refseq	NM_002594
Protein Refseq	NP_002585
MIM	162151
UniProt ID	P16519
Chromosome	20p11.2

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Location	
Pathway	Insulin Processing; Metabolism of proteins; Peptide hormone metabolism
Function	protein binding; protein complex binding; serine-type endopeptidase activity

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