

## Active Recombinant Human PCSK2, His-tagged

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

### SPECIFICATION

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>     | Recombinant Human PCSK2 (Gly110-Asn638) fused with 6His tag at Cterminal, was expressed in CHO Cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>               | CHO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>ProteinLength</b>        | 110-638 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>          | <p>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.</p> |
| <b>Predicted N Terminal</b> | Gly110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Form</b>                 | Supplied as a 0.2 µ filtered solution in Tris, NaCl and CaCl <sub>2</sub> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Bio-activity</b>         | <p>Measured by its ability to cleave the fluorogenic peptide substrate pERTKR-AMC. The specific activity is &gt;60 pmol/min/g, as measured under the described conditions.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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|                       |                                                                                                                                                                                 |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Molecular Mass</b> | 59 kDa                                                                                                                                                                          |
| <b>Endotoxin</b>      | < 1.0 EU per 1 µg of the protein by the LAL method.                                                                                                                             |
| <b>Purity</b>         | >90%, by SDS-PAGE under reducing conditions and visualized by silver stain.                                                                                                     |
| <b>Storage</b>        | 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

|                        |                                                                                                                                                                                   |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | PCSK2 proprotein convertase subtilisin/kexin type 2 [ Homo sapiens (human) ]                                                                                                      |
| <b>Official Symbol</b> | PCSK2                                                                                                                                                                             |
| <b>Synonyms</b>        | 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 |
| <b>Gene ID</b>         | 5126                                                                                                                                                                              |
| <b>mRNA Refseq</b>     | NM_002594                                                                                                                                                                         |
| <b>Protein Refseq</b>  | NP_002585                                                                                                                                                                         |
| <b>MIM</b>             | 162151                                                                                                                                                                            |
| <b>UniProt ID</b>      | P16519                                                                                                                                                                            |
| <b>Chromosome</b>      | 20p11.2                                                                                                                                                                           |

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

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