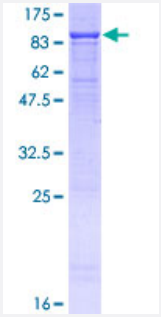
Full-Length

# PCSK7 (Human) Recombinant Protein (P01)

Catalog # H00009159-P01 Size 25 ug, 10 ug

## Applications




## Specification

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| **Product Description** | Human PCSK7 full-length ORF ( AAH06357.1, 1 a.a. - 591 a.a.) recombinant protein with GST-tag at N-terminal. |
| **Sequence** | MPKGRQKVPHLDAPLGLPTCLWLELAGLFLLVPWVMGLAGTGGPDGQGTGGPSWAVHLESLE GDGEEETLEQQADALAQAAGLVNAGRIGELQGHYLFVQPAGHRPALEVEAIRQQVEAVLAGHEA VRWHSEQRLLRRAKRSVHFNDPKYPQQWHLNNRRSPGRDINVTGVWERNVTGRGVTVVVVDD GVEHTIQDIAPNYSPEGSYDLNSNDPDPMPHPDVENGNHHGTRCAGEIAAVPNNSFCAVGVAYG SRIAGIRVLDGPLTDSMEAVAFNKHYQINDIYSCSWGPDDDGKTVDGPHQLGKAALQHGVIAGRQ GFGSIFVVASGNGGQHNDNCNYDGYANSIYTVTIGAVDEEGRMPFYAEECASMLAVTFSGGDKML RSIVTTDWDLQKGTGCTEGHTGTSAAAPLAAGMIALMLQVRPCLTWRDVQHIIVFTATRYEDRRAE WVTNEAGFSHSHQHGFGLLNAWRLVNAAKIWTSVPYLASYVSPVLKENKAIPQSPRSLEVLWNV SRMDLEMSGLKTLEHVAVTVSITHPRRGSLELKLFCPSGMMSLIGAPRSMDSWLCVECSRHQGQ TKAVRECHEWKIPAR |
| **Host** | Wheat Germ (in vitro) |
| **Theoretical MW (kDa)** | 90.75 |
| **Interspecies Antigen Sequence** | Mouse (85); Rat (87) |
| **Preparation Method** | *in vitro* wheat germ expression system |
| **Purification** | Glutathione Sepharose 4 Fast Flow |

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| **Quality Control Testing** | 12.5% SDS-PAGE Stained with Coomassie Blue. |
| **Storage Buffer** | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer. |
| **Storage Instruction** | Store at -80°C. Aliquot to avoid repeated freezing and thawing. |
| **Note** | Best use within three months from the date of receipt of this protein. |

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — PCSK7

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| **Entrez GeneID** | 9159 |
| **GeneBank Accession#** | BC006357 |
| **Protein Accession#** | AAH06357.1 |
| **Gene Name** | PCSK7 |
| **Gene Alias** | LPC, PC7, PC8, SPC7 |
| **Gene Description** | proprotein convertase subtilisin/kexin type 7 |
| **Omim ID** | 604872 |
| **Gene Ontology** | Hyperlink |

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| **Gene Summary** | 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 calcium-dependent serine endoprotease. It is structurally related to its family members, PACE and PACE4. This protein is concentrated in the trans-Golgi network, associated with the membranes, and is not secreted. It can process proalbumin and is thought to be responsible for the activation of HIV envelope glycoproteins gp160 and gp140. This gene has been implicated in the transcriptional regulation of housekeeping genes. Multiple alternatively spliced transcripts are described for this gene but their full length nature is not yet known. Downstream of this gene's map location at 11q23-q24, nucleotides that match part of this gene's 3' end are duplicated and inverted. A translocation breakpoint associated with lymphoma occurs between this gene and its inverted counterpart. [provided by RefSeq |
| **Other Designations** | lymphoma proprotein convertase\|prohormone convertase 8, subtilisin-like\|prohormone convertase PC7\|proprotein convertase PC7\|proprotein convertase subtilisin/kexin type 7 precursor variant 1\|subtilisin/kexin-like protease PC7 |

## Publication Reference

- Development of a high-throughput assay for human proprotein convertase 5/6 for detecting uterine receptivity.

  Heng S, Dynon K, Li Y, Edgell T, Walton K, Rombauts LJ, Vollenhoven B, Nie G.

  Analytical Biochemistry 2015 Apr; 475:14.

  Application: ELISA, WB, Human, Uterine lavage