Recombinant Human PCSK7, GST-tagged

Cat. No. PCSK7-134H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human PCSK7 full-length ORF (AAH06357.1, 1 a.a. - 591 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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 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.
Molecular Mass	90.75 kDa
AA Sequence	MPKGRQKVPHLDAPLGLPTCLWLELAGLFLLVPWVMGLAGTGGPDGQGTGGPSW

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	AVHLESLEGDGEEETLEQQAD ALAQAAGLVNAGRIGELQGHYLFVQPAGHRPALEV EAIRQQVEAVLAGHEAVRWHSEQRLLRRAKRSVHFNDPKY PQQWHLNNRRSPGR DINVTGVWERNVTGRGVTVVVVDDGVEHTIQDIAPNYSPEGSYDLNSNDPDPMPHP DVENG NHHGTRCAGEIAAVPNNSFCAVGVAYGSRIAGIRVLDGPLTDSMEAVAFNK HYQINDIYSCSWGPDDDGKTVDGP HQLGKAALQHGVIAGRQGFGSIFVVASGNGG QHNDNCNYDGYANSIYTVTIGAVDEEGRMPFYAEECASMLAVTF SGGDKMLRSIVT TDWDLQKGTGCTEGHTGTSAAAPLAAGMIALMLQVRPCLTWRDVQHIIVFTATRYE DRRAEWV TNEAGFSHSHQHGFGLLNAWRLVNAAKIWTSVPYLASYVSPVLKENKAI PQSPRSLEVLWNVSRMDLEMSGLKTL EHVAVTVSITHPRRGSLELKLFCPSGMMSL IGAPRSMDSWLCVECSRHQGQTKAVRECHEWKIPAR
Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	PCSK7 proprotein convertase subtilisin/kexin type 7 [Homo sapiens(human)]
Official Symbol	PCSK7
Synonyms	PCSK7; LPC; PC7; PC8; SPC7; proprotein convertase subtilisin/kexin type 7; hPC8; prohormone convertase 7; proprotein convertase 7; proprotein convertase 8; prohormone convertase PC7; proprotein convertase PC7; lymphoma proprotein convertase; subtilisin/kexin-like protease PC7; EC 3.4.21.-

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Gene ID	9159
mRNA Refseq	NM_004716
Protein Refseq	NP_004707
MIM	604872
UniProt ID	Q16549
Chromosome Location	11q23-q24
Function	serine-type endopeptidase activity

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