Active Recombinant Human PCSK7, His-tagged

Cat. No. PCSK7-135H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PCSK7 (Leu38-Thr667) fused with a 10-His tag between Arg141 and Ser142, was expressed in Mouse NSO Cells.
Species	Human
Source	Mammalian Cells
ProteinLength	38-667 a.a.
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.
Predicted N Terminal	Leu38 & His tag

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Form	Supplied as a 0.2 μm filtered solution in Tris, NaCl, CaCl2 and Glycerol.
Bio-activity	Measured by its ability to cleave the fluorogenic peptide substrate pERTKR-AMC. The specific activity is >125 pmol/min/μg, as measured under the described conditions.
Molecular Mass	70 kDa (pro form) & 59 kDa (mature form), SDS-PAGE:79 kDa, reducing conditions.
Endotoxin	< 1.0 EU per 1 μg of the protein by the LAL method.
Purity	>95%, 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, -20 to -70 °C as supplied. 3 months, -20 to -70 °C under sterile conditions after opening.

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.-
Gene ID	9159
mRNA Refseq	NM_004716
Protein Refseq	NP_004707

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

MIM	604872
UniProt ID	Q16549
Chromosome Location	11q23-q24
Function	serine-type endopeptidase activity

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA