

Proprotein convertase subtilisin/kexin type 5 Recombinant Protein | Pcsk5 recombinant protein

Recombinant Mouse Proprotein convertase subtilisin/kexin type 5

CATALOG # AAA113464	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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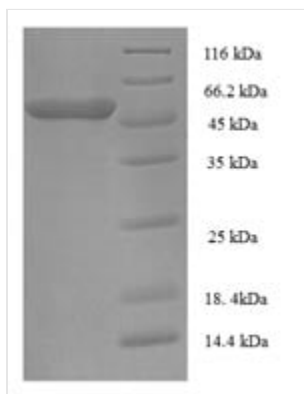
PRODUCT SYNONYMS

Proprotein convertase subtilisin/kexin type 5; Recombinant Mouse Proprotein convertase subtilisin/kexin type 5; Proprotein convertase 5; PC5; Proprotein convertase 6; PC6; Subtilisin-like proprotein convertase 6; SPC6; Subtilisin/kexin-like protease PC5; Pcsk5 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	117-452aa; Full Length
Sequence	DYDLSHAQST YFNDPKWPSM WYMHCSDNTH PCQSDMNIEG AWKRGYTGKN IVVTILDDGI ERTHPDLMQN YDALASCDVN GNDLDPMPRY DASNENKHGT RCAGEVAATA NNSHCTVGIA FNAKIGGVVM LDGDVTDME AKSVSYNPQH VHIYSASWGP DDDGKTVDPG APLTRQAFEN GVRMGRRGLG SVFVWASGNG GRSKDHCSGD GYTNSIYTIS ISSTAESGKK PWYLEECSST LATTYSSGES YDKKIITDL RQRCTDNHTG TSASAPMAAG IIALALEANP FLTWRDVQHV IVRTSRAGHL NANDWKTNAA GFKVSHLYGF GLMDAE
Sequence Length	452
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for Pcsk5 recombinant protein	Plays an essential role in pregnancy establishment by proteolytic activation of a number of important factors such as BMP2, CALD1 and alpha-integrins. Likely to represent a widespread endoprotease activity within the constitutive and regulated secretory pathway. Capable of cleavage at the RX(K/R)R consensus motif. May be responsible for the maturation of gastrointestinal peptides. May be involved in the cellular proliferation of adrenal cortex via the activation of growth factors.
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References	Identification of an isoform with an extremely large Cys-rich region of PC6, a Kex2-like processing endoprotease. Nakagawa T., Murakami K., Nakayama K. FEBS Lett. 327:165-171(1993) Identification and functional expression of a new member of the mammalian Kex2-like processing endoprotease family its striking structural similarity to PACE4. Nakagawa T., Hosaka M., Torii S., Watanabe T., Murakami K., Nakayama K.J. Biochem. 113:132-135(1993) cDNA structure of the mouse and rat subtilisin/kexin-like PC5 a candidate proprotein convertase expressed in endocrine and nonendocrine cells. Lusson J., Vieau D., Hamelin J., Day R., Chretien M., Seidah N.G. Proc. Natl. Acad. Sci. U.S.A. 90:6691-6695(1993) Lineage-specific biology revealed by a finished genome assembly of the mouse. Church D.M., Goodstadt L., Hillier L.W., Zody M.C., Goldstein S., She X., Bult C.J., Agarwala R., Cherry J.L., DiCuccio M., Hlavina W., Kapustin Y., Meric P., Maglott D., Birtle Z., Marques A.C., Graves T., Zhou S., Teague B., Potamouisis K., Churas C., Place M., Herschleb J., Runnheim R., Forrest D., Amos-Landgraf J., Schwartz D.C., Cheng Z., Lindblad-Toh K., Eichler E.E., Ponting C.P. PLoS Biol. 7:E1000112-E1000112(2009) The isoforms of proprotein convertase PC5 are sorted to different subcellular compartments. De Bie I., Marcinkiewicz M., Malide D., Lazure C., Nakayama K., Bendayan M., Seidah N.G.J. Cell Biol. 135:1261-1275(1996) SPC4, SPC6, and the novel protease SPC7 are coexpressed with bone morphogenetic proteins at distinct sites during embryogenesis. Constam D.B., Calfon M., Robertson E.J.J. Cell Biol. 134:181-191(1996) Murine subtilisin-like proteinase SPC6 is expressed during embryonic implantation, somitogenesis, and skeletal formation. Rancourt S.L., Rancourt D.E. 3.0.CO;2-5>Dev. Genet. 21:75-81(1997)
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NCBI AND UNIPROT INFORMATION

NCBI GI #	299523019
NCBI GeneID	18552
NCBI Accession #	NP_001177412.1
NCBI GenBank Nucleotide #	NM_001190483.2
UniProt Accession #	Q04592; Q62040; E9QPB7
Molecular Weight	38.7 kDa
NCBI Official Full Name	proprotein convertase subtilisin/kexin type 5 isoform 1 preproprotein
NCBI Official Synonym Full Names	proprotein convertase subtilisin/kexin type 5
NCBI Official Symbol	Pcsk5
NCBI Official Synonym Symbols	PC5; PC6; SPC6; b2b585Clo; b2b1549Clo
NCBI Protein Information	proprotein convertase subtilisin/kexin type 5
UniProt Protein Name	Proprotein convertase subtilisin/kexin type 5
UniProt Gene Name	Pcsk5
UniProt Synonym Gene Names	PC5; PC6; SPC6
UniProt Entry Name	PCSK5_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.