



# Recombinant Human Neuroendocrine convertase 1 (PCSK1)

<b>Product Code</b>	CSB-MP017640HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P29120
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	SALRDSALNL FNDPMWNQQW YLQDTRMTAA LPKLDLHVIP VWQKGITGKG VVITVLDDGL EWNHTDIYAN YDPEASYDFN DNDHDPFPRY DPTNENKHGT RCAGEIAMQA NNHKCGVGVA YNSKVGGIRM LDGIVTDAIE ASSIGFNP GH VDIYSASWGP NDDGKTVEGP GRLAQKAF EY GVKQGRQGKG SIFVWASGNG GRQGDNDCDCD GYTDSIYTIS ISSASQQGLS PWYAEKCSST LATSYS S GDY TDQRITSADL HNDCTETHTG TSASAPLAAG IFALALEANP NLTWRDMQHL VVWTSEYDPL ANNPGWKKNG AGLMVNSRFG FGLLNAKALV DLADPRTWRS VPEKKECVVK DNDFEPRALK ANGEV IIEIP TRACEGQENA IKSLEHVQFE ATIEYSRRGD LHVTLTSAAG TSTVLLAERE RDTSPNGFKN WDFMSVHTWG ENPIGTWTLR ITDMSGRIQN EGRIVNWKLI LHGTSSQPEH MKQPRVYTSY NTVQNDRRGV EKMVDPGEEQ PTQENPKENT LVSKSPSSSS VGGRRDELEE GAPSQAMLRL LQSAFSKN SP PKQSPKKSPS AKLNIPYENF YEALEKLNKP SQLKDESDSL YNDYVDVFYN TKPYKHRDDR LLQALVDILN EEN
<b>Source</b>	Mammalian cell
<b>Target Names</b>	PCSK1
<b>Protein Names</b>	Recommended name: Neuroendocrine convertase 1 Short name= NEC 1 EC= 3.4.21.93 Alternative name(s): Prohormone convertase 1 Proprotein convertase 1 Short name= PC1
<b>Expression Region</b>	111-753
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	This protein 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 type I proinsulin-processing enzyme that plays a key role in regulating insulin biosynthesis. It is also known to cleave proopiomelanocortin, prorenin, proenkephalin, prodynorphin, prosomatostatin and progastrin. Mutations in this gene are thought to cause obesity. This encoded protein is associated with carcinoid tumors. The use of alternate polyadenylation sites has been found for



this gene. Multiple alternatively spliced transcript variants have been described for this gene but their full length nature is not known.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.