

PCSK1 Protein, Human (HEK293, His)

Cat. No.:	HY-P77462
Synonyms:	Neuroendocrine convertase 1; Prohormone convertase 1; PC1; NEC1
Species:	Human
Source:	HEK293
Accession:	P29120 (M1-R617)
Gene ID:	5122
Molecular Weight:	Approximately 66 kDa

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 25 mM Tris, 150 mM NaCl, pH 7.5. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The PCSK1 Protein plays a pivotal role in the processing of hormone and other protein precursors, particularly at sites characterized by pairs of basic amino acid residues. Functioning as a proprotein convertase, PCSK1 targets a range of substrates, including POMC, renin, enkephalin, dynorphin, somatostatin, insulin, and AGRP. Through its enzymatic activity, PCSK1 is involved in the proteolytic cleavage and maturation of these precursor molecules, thereby regulating the generation of active hormones and neuropeptides. The diverse substrates highlight the broad impact of PCSK1 on the processing of proteins crucial for various physiological functions, including metabolism, endocrine signaling, and neuropeptide regulation.
------------	---

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA