

Enterokinase Active Protein | TMPRSS15 active protein

Human Enterokinase

CATALOG # AAA79292	HOST CHO Cells
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PRODUCT SYNONYMS

Enterokinase; Human Enterokinase; Enteropeptidase; Serine protease 7; TMPRSS15 active protein

PRODUCT SPECIFICATIONS

Host	CHO Cells
Purity/Purification	>90% by SDS-PAGE & HPLC analyses
Form/Format	Lyophilized from 10mM Sodium Phosphate, pH 7.5 + 1mM Calcium Chloride.
Sequence	Heavychain :LTIKESQRG AALGQSHEAR ATFKITSGVT YNPNLQDKLS VDFKVLAFDL QQMIDEIFLS SNLKNEYKNS RVLQFENGSI IVVFDLFFAQ WVSDQNVKEE LIQGLEANKS SQLVTFHIDL NSVDILDKLT TTSHLATPGN VSIECLPGSS PCTDALTCIK ADLFCDGEVN CPDGSDEDNK MCATVCDGRF LLTGSSGSFQ ATHYKPSET SVVCQWIIRV NQGLSIKLSF DDFNTYYTDI LDIYEGVGSS KILRASIWET NPGTIRIFSN QVTATFLIES DESDYVGFA TYTAFNSSEL NNYEKINCNF EDGFCFWVQD LNDDNEWERI QGSTFSPFTG PNFDHTFGNA SGFYISTPTG PGGQRQERVGL LSLPLDPTLE PACLSFWYHM YGENVHKLSI NISNDQNMEK TVFQKEGNYG DNWNYGQVTL NETVKFKVAF NAFKNKILSD IALDDISLTY GICNGSLYPE PTLVPTPPPE LPTDCGGPFE LWEPTTFSS TNFPNSYPNL AFCVWILNAQ KGKNIQLHFQ EFDLENINDV VEIRDGEEAD SLLLA VYTGP GPVKDVFTT NRM TVLLITN DVLARGG FKA NFFTGYHLGI PEPCKADHFQ CKNGECVPLV NLCDGHLHCE DGSDEADCVR FFNGTTNNNG LVRFRIQSIW HTACAENWTT QISNDVCQLL GLGSGNSSKP IFSTDGGPFV KLNTAPDGHL ILTPSQQLQ DSLIRLQCNH KSCGKKLAAQ DITPK LightChain: IVGGSNAKEG AWPWVVGLYY GGRLLCGASL VSSDWLVSA HCVYGRNLEP SKWTAILGLH MKSNTSPQT VPRLIDEIVI NPHYNRRRKD NDIAMMHLEF KVN YTDYIQP ICLPEENQVF PPGRNCSIAG WGT VVYQGT ANILQEADV LLSNERCQQQ MPEYNITENM ICAGYEEGGI DSCQGDSGGP LMCQENNRWF LAGVTSFGYK CALPNRPGVY ARVSRFTEWI QSFLH
Sequence Length	235
Endotoxin Level	< 0.2 ng / ug of protein (<2EU/ug).
Biological Activity	Sequentially cleaves carboxyl side of D-D-D-D-K.
Reconstitution	Centrifuge vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.
Preparation and Storage	The lyophilized protein is stable at room temperature for 1 month and at 4°C for 6 months. Reconstituted working aliquots are stable for 1 week at 2°C to 8°C and for 3 months at -20°C to -80°C.

ADDITIONAL INFORMATION

Related Product Information for TMPRSS15 active protein	Proteases (also called Proteolytic Enzymes, Peptidases, or Proteinases) are enzymes that hydrolyze the amide bonds within proteins or peptides. Most proteases act in a specific manner, hydrolyzing bonds at or adjacent to specific residues or a specific sequence of residues contained within the substrate protein or peptide. Proteases play an important role in most diseases and biological processes including prenatal and postnatal development, reproduction, signal transduction, the immune response, various autoimmune and degenerative diseases, and cancer. They are also an important research tool, frequently used in the analysis and production of proteins. Enterokinase sequentially cleaves carboxyl side of D-D-D-D-K. Human Enterokinase is expressed as a linear 1019 amino acid polypeptide precursor glycoprotein. Proteolytic processing of this precursor generates the biologically active form of Enterokinase, which consists of two polypeptide chains (heavy chain and light chain) held together by a single disulfide bond, resulting in formation of a biologically active heterodimer. The heavy chain consists of 784 amino acid residues, and the light consists of 235 amino acid residues.
Product Categories/Family for TMPRSS15 active protein	Cytokines & Growth Factors

NCBI AND UNIPROT INFORMATION

NCBI GI #	223942069
NCBI GeneID	5651
NCBI Accession #	NP_002763.2
NCBI GenBank Nucleotide #	NM_002772.2
UniProt Accession #	P98073; Q2NKL7
Molecular Weight	108.7 kDa
NCBI Official Full Name	enteropeptidase
NCBI Official Synonym Full Names	transmembrane protease, serine 15
NCBI Official Symbol	TMPRSS15
NCBI Official Synonym Symbols	ENTK; PRSS7
NCBI Protein Information	enteropeptidase; serine protease 7; enterokinase catalytic subunit; protease, serine, 7 (enterokinase)
UniProt Protein Name	Enteropeptidase
UniProt Gene Name	TMPRSS15
UniProt Synonym Gene Names	ENTK; PRSS7
UniProt Entry Name	ENTK_HUMAN

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.