

Active Recombinant Human TMPRSS15

Cat. No. TMPRSS15-10H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human Enterokinase is expressed in CHO Cells 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.
Species	Human
Source	CHO
Description	This gene encodes an enzyme that converts the pancreatic proenzyme trypsinogen to trypsin, which activates other proenzymes including chymotrypsinogen and procarboxypeptidases. The precursor protein is cleaved into two chains that form a heterodimer linked by a disulfide bond. This protein is a member of the trypsin family of peptidases. Mutations in this gene cause enterokinase deficiency, a malabsorption disorder characterized by diarrhea and failure to thrive.
Bio-activity	Sequentially cleaves carboxyl side of D-D-D-D-K.
AA Sequence	Heavy chain:LTIKESQRGA ALGQSHEARA TFKITSGVTY NPNLQDKLSV DFKVLAFDLQ QMIDEIFLSS NLKNEYKNSR VLQFENGSI VVFDLFFAQW VSDQNVKEEL IQGLEANKSS QLVTFHIDLN SVDILDKLTT TSHLATPGNV SIECLPGSSP CTDALTCIKA DLFCDG EVNC PDGSDEDNKM CATVCDGRFL

 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

LTGSSGSFQA THYPKPSETS VVCQWIIRVN QGLSIKLSFD DFNTYYTDIL
 DIYEGVGSSK ILRASIWETN PGTIRIFSNQ VTATFLIESD ESDYVGFNAT
 YTAFNSSELN NYEKINCNFE DGFCFWVQDL NDDNEWERIQ GSTFSPFTGP
 NFDHTFGNAS GFYISTPTGP GGRQERVGLL SLPLDPTLEP ACLSFWYHMY
 GENVHKLSIN ISNDQNMEKT VFQKEGNYGD NWNYGQVTLN ETVKFKVAFN
 AFKNKILSDI ALDDISLTYG ICNGSLYPEP TLVPTPPPEL PTDCGGPFEL
 WEPNTTFSST NFPNSYPNLA FCVWILNAQK GKNQLHFQE FDLENINDVV
 EIRDGEEADS LLLAVYTGPV PVKDVFSTTN RMTVLLITND VLARGGFKAN
 FTTGYHLGIPEPCKADHFQC KNGECVPLVN LCDGHLHCED GSDEADCVRP
 FNGTTNNGL VRFRIQSIWH TACAENWTTQ ISNDVCQLLG LGSGNSSKPI
 FSTDGGPFVK LNTAPDGHLI LTPSQCLQD SLIRLQCNHK SCGKKLAAQD
 ITPKLight Chain:IVGGSNAKEG AWPWVVGGLY GGRLLCGASL VSSDWLVSA
 HCVYGRNLEP SKWTAIHLGH MKSNLTSPQT VPRIDEIVI NPHYNRRRKD
 NDIAMMHLEF KVNYYDYIQP ICLPEENQVF PPGRNCISIAG WGTVVYQGT
 ANILQEADV LLSNERCQQQ MPEYNITENM ICAGYEEGGI DSCQGDSSGP
 LMCQENNRWF LAGVTSFGYK CALPNRPGVY ARVSRFTEWI QSFLH

Purity Greater than 90% by SDS-PAGE gel and HPLC analyses.

Storage Store at -20°C. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name [TMPRSS15 transmembrane protease, serine 15 \[Homo sapiens \]](#)

Official Symbol TMPRSS15

Synonyms TMPRSS15; transmembrane protease, serine 15; protease, serine, 7 (enterokinase) , PRSS7; enteropeptidase; ENTK; MGC133046; proenterokinase; enterokinase; serine protease 7; protease, serine, 7 (enterokinase); PRSS7;

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Gene ID	5651
mRNA Refseq	NM_002772
Protein Refseq	NP_002763
MIM	606635
UniProt ID	P98073
Chromosome Location	21q21
Function	peptidase activity; scavenger receptor activity; serine-type endopeptidase activity;

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