# Active Recombinant Human TMPRSS15

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

## SPECIFICATION

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| **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 VLQFENGSII VVFDLFFAQW VSDQNVKEEL IQGLEANKSS QLVTFHIDLN SVDILDKLTT TSHLATPGNV SIECLPGSSP CTDALTCIKA DLFCDGEVNC PDGSDEDNKM CATVCDGRFL |

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| | 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 GKNIQLHFQE FDLENINDVV EIRDGEEADS LLLAVYTGPG PVKDVFSTTN RMTVLLITND VLARGGFKAN FTTGYHLGIPEPCKADHFQC KNGECVPLVN LCDGHLHCED GSDEADCVRF FNGTTNNNGL VRFRIQSIWH TACAENWTTQ ISNDVCQLLG LGSGNSSKPI FSTDGGPFVK LNTAPDGHLI LTPSQQCLQD SLIRLQCNHK SCGKKLAAQD ITPKLight Chain:IVGGSNAKEG AWPWVVGLYY GGRLLCGASL VSSDWLVSAA HCVYGRNLEP SKWTAILGLH MKSNLTSPQT VPRLIDEIVI NPHYNRRRKD NDIAMMHLEF KVNYTDYIQP ICLPEENQVF PPGRNCSIAG WGTVVYQGTT ANILQEADVP LLSNERCQQQ MPEYNITENM ICAGYEEGGI DSCQGDSGGP 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

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| **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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