Enterokinase Human Chinese Hamster Ovary Cells (CHO)

Product Data Sheet

Type: Recombinant
Source: Chinese Hamster Ovary Cells (CHO)
Species: Human
Other names: ,

Cat. No.:

RBG10121010	(10 µg)
RBG10121050	(50 µg)
RBG10121100	(100 µg)

Description

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 chain consists of 235 amino acid residues. The calculated molecular weight of Recombinant Human Enterokinase is 108.7 kDa.

Research topic

Others

Amino Acid Sequence

Heavy chain:LTIKESQRGA ALGQSHEARA TFKITSGVTY NPNLQDKLSV DFKVLAFDLQ QMIDEIFLSS NLKNEYKNSR VLQFENGSII VVFDLFFAQW VSDQNVKEEL IQGLEANKSS QLVTFHIDLN SVDILDKLTT TSHLATPGNV SIECLPGSSP CTDALTCIKA DLFCDGEVNC PDGSDEDNKM CATVCDGRFL 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 ITPK
Light 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

Source

Chinese Hamster Ovary Cells (CHO)

Purity

90%

Biological Activity

Sequentially cleaves carboxyl side of D-D-D-D-K.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. 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

Storage, Stability/Shelf Life

-20°C

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