

Product datasheet

Recombinant human Enterokinase protein (Animal Free) ab234498

Description

Product name	Recombinant human Enterokinase protein (Animal Free)
Biological activity	Sequentially cleaves carboxyl side of D-D-D-D-K.
Purity	>= 90 % SDS-PAGE. >= 90% by HPLC analysis.
Endotoxin level	< 0.200 Eu/μg
Expression system	CHO cells
Accession	P98073
Protein length	Protein fragment
Animal free	Yes
Nature	Recombinant
Species	Human
Sequence	Heavy chain (aa41-784): LTIKESQRGAALGQSHEARATFKITSGVTYNPNLQDK LSVDFKVLAFDLQQMIDEIFLSSNLKNEYKNSRVLQFE NGSIVVFDLFF AQWVSDQNVKEELIQGLEANKSSQLVTFHIDLNSVDIL DKLTTTSHLATP GNVSIECLPGSSPCTDALTCIKADLFCDGEVNC PDGS DEDNKMCA TVCDG RFLLTGSSGSFQATHYPKPSETSVVCQWIIRVNQGLSIK LSFDDFNYYT DILDYEGVGSSKILRASIWETNPGTIRIFSNQVTATFLIES DESDYVGF NATYTAFNSSELNNYEKINCFEDGFCFWVQDLNDDN EWERIQGSTFSPF TGNPFDHTFGNASGFYISTPTGPGGRQERVGLLSLPLD PTLEPACLSFWY HMYGENVHKLSINISNDQNMEKTVFQKEGNYGDNWNY GQVTLNETVKFKV AFNAFKNKILSDIALDDISLTYGICNGSLYPEPTLVPTPP PELPTDCGGP FELWEPNTTFSSTNFPNSYPNLAFVCWILNAQKGNIQ LHFQEFDLENIN

DVVEIRDGEEADSLLLAVYTGPVGDVDFSTTNRMTVL
 LITNDVLARGGF
 KANFTTGYHLGIPEPCKADHFQCKNGECVPLVNLCDG
 HLHCEDGSDEADC
 VRRFNGTTNNGLVRFRIQSIWHTACAENWTTQISNDV
 CQLLGLGSGNSS
 KPIFSTDGGPFVKLNTAPDGHLILTPSQCLQDSLIRLQ
 CNHKSCGKKLA AQDITPK Light chain (aa785-1019):
 IVGGSNAKEGAWPWVGLYGGRLLCGASLVSSDWL
 VSAAHCVYGRNLEP
 SKWTAILGLHMKSNLTSPQTPRLIDEVINPHYNRRRK
 DNDIAMMHLEF
 KVNYYTDYQPICLPEENQVFPPGRNCSIAGWGTVVYQG
 TTANILQEADV
 LLSNERCQQMPEYNITENMICAGYEEGGIDSCQGDS
 GGPLMCQENNRWF
 LAGVTSFGYKCALPNRPGVYARVSRFTEWISFLH

Predicted molecular weight 109 kDa
Amino acids 41 to 1019

Specifications

Our [Abpromise guarantee](#) covers the use of **ab234498** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications SDS-PAGE
 Functional Studies
 HPLC

Form Lyophilised

Preparation and Storage

Stability and Storage Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

This product is an active protein and may elicit a biological response in vivo, handle with caution.

Reconstitution For lot specific reconstitution information please contact our Scientific Support Team.

General Info

Function Responsible for initiating activation of pancreatic proteolytic proenzymes (trypsin, chymotrypsin and carboxypeptidase A). It catalyzes the conversion of trypsinogen to trypsin which in turn activates other proenzymes including chymotrypsinogen, procarboxypeptidases, and proelastases.

Tissue specificity Intestinal brush border.

Involvement in disease Defects in TMPRSS15 are a cause of enterokinase deficiency (ENTKD) [MIM:226200]; a life-threatening intestinal malabsorption disorder characterized by diarrhea and failure to thrive.

Sequence similarities Belongs to the peptidase S1 family.

Contains 2 CUB domains.
Contains 2 LDL-receptor class A domains.
Contains 1 MAM domain.
Contains 1 peptidase S1 domain.
Contains 1 SEA domain.
Contains 1 SRCR domain.

Post-translational modifications

The chains are derived from a single precursor that is cleaved by a trypsin-like protease.

Cellular localization

Membrane.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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