abcam

Product datasheet

Enterokinase Inhibitor Assay Kit (Fluorometric) ab170965

1 Image

Overview

Product name	Enterokinase Inhibitor Assay Kit (Fluorometric)
Detection method	Fluorescent
Sample type	Inhibitor compounds
Assay type	Enzyme activity
Product overview	Abcam's Enterokinase Inhibitor Screening Kit (Fluorometric) utilizes a peptide substrate containing the Enteropeptidase recognition sequence along with a fluorescent label 'AFC'. Enteropeptidase catalyzes the cleavage of this substrate and releases the AFC molecule, which can be easily quantified by measuring its fluorescence at Ex/Em = 380/500 nm. In the presence of potent Enteropeptidase inhibitor, the hydrolyzation of the substrate will be impeded. The kit provides a rapid, simple and reliable test for screening potential inhibitors of Enteropeptidase.
Notes	This product is manufactured by BioVision, an Abcam company and was previously called K759 Enteropeptidase/Enterokinase Inhibitor Screening Kit (Fluorometric). K759-100 is the same size as the 100 test size of ab170965. Enteropeptidase (Enterokinase, EC 3.4.21.9) is a serine protease involved in activation of trypsinogen to trypsin, which in turn results in the activation of various digestive enzymes. It recognizes a highly specific amino acid sequence 'DDDDK' and cleaves after the lysine residue. High specific activity of Enteropeptidase has been utilized in cleaving a variety of native or fusion proteins containing the above recognition.
Platform	Microplate reader

Properties

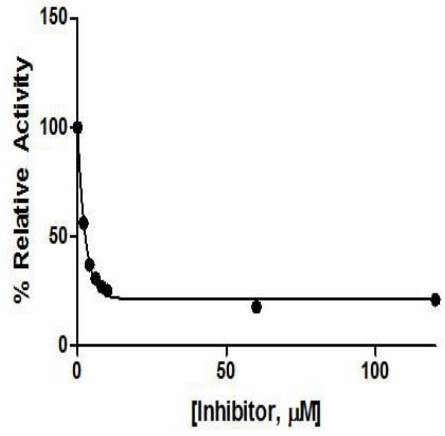
Storage instructions	Store at -20°C. Please refer to protocols.

Components	
Enteropeptidase-specific Inhibitor [Aprotinin]	1 x 0.1ml
Enteropeptidase Assay Buffer	1 x 20ml
Enteropeptidase Substrate	1 x 0.2ml

Components	
Human Enteropeptidase	1 x 0.17ml

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.

Images



Inhibition of Enteropeptidase

Inhibition of Enteropeptidase activity by Enteropeptidase-specific Inhibitor, Aprotinin. Assay was performed following kit protocol.

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