CREATIVE BIOMART®
Assay Kit

PRSS7 Assay/Inhibitor Screening Fluorometric Kit

Product Information

Cat.No. Kit-0739

Product Overview

PRSS7 Assay/Inhibitor Screening Kit (Fluorometric)?is used for screening enteropeptidase/enterokinase inhibitors using fluorometric methods.

Description

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. In PRSS7 Assay/Inhibitor Screening Kit (Fluorometric), we have utilized 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 & reliable test for screening potential inhibitors of Enteropeptidase.

Applications

Screening potential inhibitors of EnteropeptidaseCharacterize/study Enteropeptidase inhibitors

Usage

For research use only (RUO)

Storage

Store kit at –20°C, protected from light. Warm Assay Buffer to room temperature before use. Briefly centrifuge small vials at low speed (high speed not ideal for enzymes) prior to opening. Read the entire protocol before performing the experiment.

Kit Components

Enteropeptidase Assay Buffer 20 mlEnteropeptidase Substrate 0.2 mlHuman Enteropeptidase 0.17

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mlEnteropeptidase-specific Inhibitor [Aprotinin] (0.6 mM) 0.1 ml

Detection method Fluorometric

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