CREATIVE BIOMART®
Assay Kit

Protease Activity Fluorometric Assay Kit

Product Information

Cat

Kit-0720

Common Name

Protease

Cat.No. Kit-0720

Product Overview

Simple procedure; takes ~60 minutes
Fast and convenient
Sensitive assay for measuring protease activity in a number of sample types

Description

Proteases are naturally present in all organisms. These enzymes are involved in a multitude of physiological reactions from simple digestion of food proteins to highly regulated cascades. Proteases can either break specific peptide bonds (limited proteolysis), depending on the amino acid sequence of a protein, or break down a complete peptide to amino acids (unlimited proteolysis). The activity can be a destructive change (abolishing a protein's function), an activation of a function (preform to mature form) or it can be a signal in a signaling pathway. Protease Activity Assay Kit is designed for the quantitative determination of proteases present in the protein sample. The assay uses fluorescein isothiocyanate (FITC)-labeled casein as a general protease substrate. The fluorescein label on the FITC-Casein is highly quenched. Upon digestion by proteases present in the sample the FITC-Casein substrate is cleaved into smaller peptides which abolishes the quenching of the fluorescence label. The fluorescence of the FITC-labeled peptide fragments is measured at Ex/Em = 485/530 nm. The kit is supplied with our Mass Spectrometry Grade (MSG), chemically stabilized Trypsin for use as a general protease control. However, other protease standard controls can also be used. This kit is easy to use and can detect < 500 pg/well Trypsin present in the sample

Applications

This kit can detect < 500 pg/well Trypsin present in the sample

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Usage

For Research Use Only! Not For Use in Humans

Storage

-20°C

Size

100 assays

Kit Components

- Assay Buffer
- Substrate (lyophilized)
- FITC Standard (25 μM)
- Positive Control (lyophilized)

Detection method Fluorescence (Ex/Em 485/530 nm)

Compatible Sample Types

Cell and Tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids, growth medium, food samples, etc.

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