CREATIVE BIOMART®
Assay Kit

TEV Protease Inhibitor Screening Kit

Product Information

Cat.No. Kit-2139

Product Overview

TEV Protease Inhibitor Screening Kit utilizes the ability of TEV Protease to cleave a synthetic Fluorescein-based peptide substrate to release fluorescein which can be easily quantified using a fluorometer or fluorescence microplate reader (Ex/Em = 490/560 nm). In the presence of a TEV Proteasespecific inhibitor, the cleavage of the substrate is reduced/abolished resulting in decrease or total loss of the fluorescence. This simple and high-throughput adaptable assay kit can be used to screen/study/characterize potential inhibitors of TEV Protease.

Size

100 assays

Description

TEV Protease (EC: 3.4.22.44) is a cysteine protease that recognizes the cleavage site of Glu-Xaa-Xaa-Y- Xaa-Gln-(Gly/Ser) and cleaves between Gln and Gly/Ser. The optimal sequence is Glu-Asn-Leu-Tyr-Phe-Gln-Ser/Glycine (ENLYFQS/G). TEV Protease has high specificity and great stability and is active over a wide range of temperatures (4-37°C) with an optimal activity at 34°C.

Applications

Screening/studying/characterizing inhibitors of TEV Protease.

Storage

Store kit at -20°C, protected from light. Briefly centrifuge small vials at low speed prior to opening. Read the entire protocol before performing the experiment.TEV Protease Assay Buffer: Bring to room temperature before use. Store at 4°C or -20°C.TEV Protease: Aliquot and store at -20°C. Avoid repeated freeze/thaw.

Kit Components

TEV Protease Assay Buffer: 25 mlTEV Protease: 100 μlTEV Protease Substrate: 100 μlTEV Protease Inhibitor (2 mM): 20 μl

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TEV Protease Inhibitor Screening Kit

Detection method Fluorescence (Ex/Em = 490/560 nm)

Compatible Sample Types

Chemical libraries, small molecules

Features & Benefits

• Simple, rapid assay• HTP Adaptable• Fluorometric Detection

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