TEV Protease Fluorometric Activity Assay Kit

Product Information

Cat.No.
Kit-2138

Product Overview

TEV Protease Activity assay 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). This assay kit is simple, rapid and can detect TEV Protease activity as low as 50 ng/well in viral lysates and purified protein samples.

Size
100 assays

Description

TEV Protease (EC: 3.4.22.44, Tobacco Etch Virus protease) is a cysteine protease that recognizes the cleavage site of Glu-Xaa- Xaa-YXaa-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

Detection of TEV Protease activity in viral lysates Determine activity of purified TEV Protease.

Target Species
Viral lysates

Storage

Kit Components
TEV Protease Fluorometric Activity Assay Kit

TEV Protease Assay Buffer: 25 ml
TEV Protease Dilution Buffer: 10 ml
1 M DTT: 100 μl
TEV Protease (Positive Control): 10 μl
TEV Protease Substrate: 100 μl
5-FAM Standard (100 μM in DMSO): 100 μl

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

Compatible Sample Types
Viral Lysates, purified protein

Features & Benefits
• Simple, rapid assay
• Can detect as low as 50 ng/well of TEV Protease activity
• Fluorometric Detection