

TEV Protease Inhibitor Screening Kit

Cat. No. Kit-2139 **Lot. No.** (See product label)

SPECIFICATION

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 Protease specific 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 ml TEV Protease: 100 µl TEV Protease Substrate: 100

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	μITEV Protease Inhibitor (2 mM): 20 μl
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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