CREATIVE BIOMART®
Assay Kit

HIV-1 Protease Fluorometric Activity Assay Kit

Product Information

Cat.No. Kit-2129

Product Overview

HIV-1 Activity assay kit utilizes the ability of active HIV-1 protease to cleave a synthetic peptide substrate to release the free fluorophore which can be easily quantified (Ex/Em = 330/450 nm) using a fluorometer or fluorescence microplate reader. This assay kit is simple, rapid and can detect HIV-1 protease activity in samples and of purified enzyme.

Size

100 assays

Description

Human Immunodeficiency Virus (HIV) is the cause of the Acquired Immunodeficiency Syndrome (AIDS). HIV-1 protease is a retroviral aspartyl protease (retropepsin) that is essential for the life-cycle of the virus as it cleaves newly synthesized polyproteins at the appropriate places to create the mature protein components of an infectious HIV virion. Without effective HIV1 protease, HIV virions remain non-infectious.

Applications

Detect activity of recombinant HIV-1 proteaseDetermine activity of purified HIV-1 protease

Storage

Store kit at -80°C, protected from light. Briefly centrifuge small vials at low speed prior to opening. Read the entire protocol before performing the assay.HIV-1 Protease Assay and Dilution Buffers: Bring to room temperature before use. Store at -20°C.HIV-1 Protease: Add 13 µl of HIV Protease Dilution Buffer to the vial. Aliquot and store at -80°C. Avoid repeated freeze/thaw.

Kit Components

HIV-1 Protease Assay Buffer: 25 mlHIV-1 Protease Dilution Buffer: 1 mlHIV-1 Protease Substrate: 0.2 mlHIV-1 Protease (Positive Control): 7 μlFI. Standard (10 mM in DMSO): 20 μl

Detection method Fluorescence (Ex/Em = 330/450 nm)

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Compatible Sample Types

Proteins/lysates

Features & Benefits

• Simple, sensitive assay.• Fluorometric detection

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