HIV-1 Protease Fluorometric Activity Assay Kit

Cat. No. Kit-2129 **Lot. No.** (See product label)

SPECIFICATION

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 µof 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

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	Protease Substrate: 0.2 mlHIV-1 Protease (Positive Control): 7 µlFl. Standard (10 mM in DMSO): 20 µl
Detection method	Fluorescence (Ex/Em = 330/450 nm)
Compatible Sample Types	Proteins/lysates
Features & Benefits	• Simple, sensitive assay.• Fluorometric detection

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