

HIV-1 Protease Inhibitor Screening Kit

Cat. No. Kit-2143 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HIV-1 Protease Inhibitor Screening kit utilizes the ability of active HIV-1 protease to cleave a synthetic peptide substrate resulting in the release of free fluorophore, which can be easily quantified using a fluorometer or fluorescence microplate reader. In the presence of a HIV-1 Protease 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 HIV-1 Protease.
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Size	100 assays
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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 HIV-1 protease, HIV virions remain non-infectious.
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Applications	Screening/studying/characterizing inhibitors of HIV-1 Protease
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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 experiment. HIV-1 Protease Assay Buffer and Dilution Buffer: Bring to room temperature before use. Store at -20°C. HIV-1 Protease: To each vial of HIV1 Protease, add 70 µl of HIV Protease Dilution Buffer as needed. Aliquot and store at -80°C. Avoid repeated freeze/thaw. Use within two months.
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Kit Components	HIV-1 Protease Assay Buffer: 25 ml HIV-1 Protease Dilution Buffer: 1 ml HIV-1 Protease Substrate: 0.2 ml HIV-1 Protease: 2 Vials HIV-1 Protease Inhibitor (1 mM Pepstatin A in DMSO): 20 µl
Detection method	Fluorescence (Ex/Em = 330/450 nm)
Compatible Sample Types	Variable: Inhibitors, small molecules, proteins, etc.
Features & Benefits	• Simple and High throughput adaptable • Detect using a fluorometer or fluorescence microplate reader.

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