CREATIVE BIOMART®
Assay Kit

# HIV-1 Protease Inhibitor Screening Kit

## Product Information

**Cat.No.** Kit-2143

**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.

**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 HIV-1 protease, HIV virions remain non-infectious.

**Applications**

Screening/studying/characterizing inhibitors of 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 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.

**Kit Components**

Tel: 1-631-559-9269 1-516-512-3133
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45-1 Ramsey Road, Shirley, NY 11967, USA

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HIV-1 Protease Assay Buffer: 25 mlHIV-1 Protease Dilution Buffer: 1 mlHIV-1 Protease Substrate: 0.2 mlHIV-1 Protease: 2 VialsHIV-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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