HIV-1 Protease Inhibitor Assay Kit (Fluorometric)
ab211106

Overview

Product name: HIV-1 Protease Inhibitor Assay Kit (Fluorometric)
Detection method: Fluorescent
Sample type: Inhibitor compounds
Assay type: Semi-quantitative

Product overview:
HIV-1 Protease Inhibitor Screening Kit (Fluorometric) (ab211106) provides a rapid, simple test suitable for high-throughput screening of HIV-1 Protease inhibitors. The assay is based on the ability of active HIV-1 protease to cleave a synthetic peptide substrate to release a free fluorophore, which can be easily quantified using a 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.

Notes:
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 polproteins 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.

Platform:
Microplate reader

Properties

Storage instructions:
Store at -80°C. Please refer to protocols.

Components

<table>
<thead>
<tr>
<th>Component</th>
<th>100 tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIV-1 Protease</td>
<td>2 vials</td>
</tr>
<tr>
<td>HIV-1 Protease Assay Buffer</td>
<td>1 x 25ml</td>
</tr>
<tr>
<td>HIV-1 Protease Dilution Buffer</td>
<td>1 x 1ml</td>
</tr>
</tbody>
</table>
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Typical inhibition curve of HIV-1 Protease activity by the protease inhibitor Pepstatin A (IC$_{50}$ = 1.6 µM) Assay was performed following the kit protocol.

**Components**

<table>
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</tr>
</thead>
<tbody>
<tr>
<td>HIV-1 Protease Inhibitor (1 mM Pepstatin A in DMSO)</td>
<td>1 x 20µl</td>
</tr>
<tr>
<td>HIV-1 Protease Substrate</td>
<td>1 x 200µl</td>
</tr>
</tbody>
</table>

**Images**

![Typical inhibition curve of HIV-1 Protease activity by the protease inhibitor Pepstatin A (IC$_{50}$ = 1.6 µM) Assay was performed following the kit protocol.](image)

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