Overview

Product name: HIV-1 Protease Activity Assay Kit (Fluorometric)
Detection method: Fluorescent
Sample type: Purified protein, Tissue Lysate
Assay type: Quantitative

Product overview:
HIV-1 Protease Activity Assay Kit (Fluorometric) (ab211105) provides a convenient and simple method for detecting the activity of recombinant and/or purified HIV-1 protease. The assay kit is based on the ability of active HIV-1 protease to cleave a synthetic peptide substrate to release the free fluorophore which can be easily quantified at Ex/Em = 330/450 nm using a fluorescence microplate reader.

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 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.

Platform:
Microplate reader

Properties

Product datasheet

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

<table>
<thead>
<tr>
<th>Components</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fl. Standard (10 mM in DMSO)</td>
<td>1 x 20µl</td>
</tr>
<tr>
<td>HIV-1 Protease (Positive Control)</td>
<td>1 x 7µl</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>
HIV-1 Protease Activity Assay Kit (Fluorometric) (ab211105)

Typical Fl. standard calibration curve.

Kinetic progress curves observed for increasing amounts of HIV-1 Protease (positive control, included in the kit) through time.

Measurement of HIV-1 Protease activity using increasing HIV-1 Protease positive control included in the kit, calculated from data from kinetic curves.

<table>
<thead>
<tr>
<th>Components</th>
<th>100 tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIV-1 Protease Substrate</td>
<td>1 x 200µl</td>
</tr>
</tbody>
</table>
Measurement of HIV-1 Protease activity using HIV-1 Protease included in kit as positive control and activity of HIV-1 Protease in presence of Pepstatin A (protease inhibitor).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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