Caspase-3, Caspase-8 and Caspase-9 Multiplex Activity Assay Kit (Fluorometric) ab219915

Overview

Product name: Caspase-3, Caspase-8 and Caspase-9 Multiplex Activity Assay Kit (Fluorometric)
Detection method: Fluorescent
Sample type: Adherent cells, Suspension cells
Assay type: Quantitative
Product overview: Caspase 3, Caspase 8 and Caspase 9 Multiplex Activity Assay Kit (Fluorometric) (ab219915) provides a simple and convenient tool to quantify caspase 3, caspase 8 and caspase 9 activity in cells that are undergoing apoptosis. The assay can also be used to screen Caspase 3, caspase 8 and caspase 9 inhibitors. This product is designed to simultaneously monitor key caspases involved in apoptosis: the initiator caspases caspase 8 and caspase 9, and the executioner Caspase 3. The kit uses DEVD-ProRed™, IETD-R110 and LEHD-AMC as fluorogenic indicators for Caspase 3, caspase 8 and caspase 9 activity respectively. Upon caspase cleavage, three distinct fluorophores are released: ProRed™ (red fluorescence), R110 (green fluorescence) and AMC (blue fluorescence), which can be readily monitored in a single assay due to their nice spectral separation.

Notes: This product has been optimized for use in a microplate reader in 96-well plate, providing enough reagent to perform 100 tests for each caspase.

Platform: Microplate reader

Properties

Storage instructions: Store at -20°C. Please refer to protocols.
**Components**

<table>
<thead>
<tr>
<th>Component</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>200X Caspase 3 Substrate</td>
<td>1 x 50µl</td>
</tr>
<tr>
<td>200X Caspase 8 Substrate</td>
<td>1 x 50µl</td>
</tr>
<tr>
<td>200X Caspase 9 Substrate</td>
<td>1 x 50µl</td>
</tr>
<tr>
<td>Assay Buffer</td>
<td>1 x 30ml</td>
</tr>
</tbody>
</table>

**Cellular localization**

- Caspase 3: Cytoplasmic
- Caspase 8: Cytoplasmic

**Images**

1. **Detection of Caspase activity in Jurkat cells**
   - Caspase 9

2. **Detection of Caspase activity in Jurkat cells**
   - Caspase 8
Detection of Caspase activity in Jurkat cells
Caspase 3

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