**Product datasheet**

**MMP-3 Activity Assay Kit (Fluorometric) ab118972**

**Overview**

<table>
<thead>
<tr>
<th>Product name</th>
<th>MMP-3 Activity Assay Kit (Fluorometric)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Detection method</td>
<td>Fluorescent</td>
</tr>
<tr>
<td>Sample type</td>
<td>Cell culture supernatant, Milk, Urine, Tissue Extracts, Cell culture media</td>
</tr>
<tr>
<td>Assay type</td>
<td>Enzyme activity</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>&lt; 0.05 mU/well</td>
</tr>
<tr>
<td>Assay time</td>
<td>1h 00m</td>
</tr>
<tr>
<td>Species reactivity</td>
<td>Reacts with: Mammal</td>
</tr>
</tbody>
</table>

**Product overview**

In Abcam's MMP-3 Activity Assay Kit, MMP-3 hydrolyzes a specific FRET substrate to release the quenched fluorescent group Mca, which can be detected fluorometrically at Ex/Em=325/393 nm. The kit provides a rapid, simple, sensitive and reliable test which can also be used as a high throughput assay of MMP-3 activity. The assay sensitivity is < 50 µU.

Visit our FAQs page for tips and troubleshooting.

**Notes**

The matrix metalloproteinase-3 (MMP-3, stromelysin-1) exhibits a number of activities that would make it a particularly good tumor promoter. Like several other MMPs, MMP-3 was first cloned and later recloned as a cancer-specific gene. In addition to degrading numerous extracellular matrix components, MMP-3 can activate gelatinase B, the collagenases and several serpin-type serine proteinase inhibitors. Moreover, it can release a number of cell surface molecules, including E-cadherin, a known contributor to cancer development.

**Tested applications**

Suitable for: Functional Studies

**Properties**

**Storage instructions**

Store at -20°C. Please refer to protocols.

<table>
<thead>
<tr>
<th>Components</th>
<th>Identifier</th>
<th>100 tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mca Standard (1mM)</td>
<td>Yellow</td>
<td>1 x 20µl</td>
</tr>
<tr>
<td>MMP-3 Assay Buffer</td>
<td>WM</td>
<td>1 x 25ml</td>
</tr>
<tr>
<td>MMP-3 Positive Control (lyophilized)</td>
<td>Green</td>
<td>1 vial</td>
</tr>
<tr>
<td>MMP-3 Substrate</td>
<td>Red</td>
<td>1 x 200µl</td>
</tr>
</tbody>
</table>
**Function**


**Sequence similarities**

Belongs to the peptidase M10A family.
Contains 4 hemopexin-like domains.

**Domain**

The conserved cysteine present in the cysteine-switch motif binds the catalytic zinc ion, thus inhibiting the enzyme. The dissociation of the cysteine from the zinc ion upon the activation-peptide release activates the enzyme.

**Cellular localization**

Secreted > extracellular space > extracellular matrix.

**Applications**

Our Abpromise guarantee covers the use of ab118972 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Functional Studies</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
</tr>
</tbody>
</table>

**Images**

**MMP-3 Mca Standard**

![MMP-3 Mca Standard](image1)

**MMP-3 Positive Control**

![MMP-3 Positive Control](image2)

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