**Lysozyme Activity Assay Kit (Fluorometric) ab211113**

### Overview

<table>
<thead>
<tr>
<th><strong>Product name</strong></th>
<th>Lysozyme Activity Assay Kit (Fluorometric)</th>
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</thead>
<tbody>
<tr>
<td><strong>Detection method</strong></td>
<td>Fluorescent</td>
</tr>
<tr>
<td><strong>Sample type</strong></td>
<td>Saliva, Serum, Cell culture extracts, Cell Lysate, Tissue Homogenate, Purified protein, Tissue Lysate</td>
</tr>
<tr>
<td><strong>Assay type</strong></td>
<td>Enzyme activity (quantitative)</td>
</tr>
<tr>
<td><strong>Sensitivity</strong></td>
<td>0.002 U/ml</td>
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**Product overview**

Lysozyme Activity Assay Kit (ab211113) provides a convenient method for quantifying Lysozyme activity in mammalian cell or tissue lysates, biological fluids such as tears or saliva. This product can also be used to measure lysozyme activity in yeast and bacteria. The assay is based on the ability of lysozyme to cleave a synthetic substrate and release a free fluorophore which can be easily quantified at Ex/Em= 360/445 nm in a fluorescent microplate reader.

This kit provides a simple, ultra-sensitive assay that can detect as low as 2 µU/mL of Lysozyme activity.

**Notes**

Lysozyme (EC 3.2.1.17), also known as muramidase or N-acetylmuramide glycanhydrolase, is a hydrolase acting on glycosidic bonds. It hydrolyzes the β-(1-4)-glycosidic linkage between N-acetyl-muraminic acid and N-acetyl-D-glucosamine residues present in the mucopolysaccharide cell wall. Lysozyme is ubiquitously found in a wide range of biological fluids such as tears, saliva and tissues. It exhibits antibacterial, antitumor and immune modulatory activities. Elevated concentrations of lysozyme in urine and serum have been reported in patients suffering leukemia, tuberculosis, megaloblastic anemias, acute bacterial infections, ulcerative colitis, severe renal insufficiency, pyelonephritis and nephritis.

### Properties

**Platform**

Microplate reader

**Storage instructions**

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

<table>
<thead>
<tr>
<th><strong>Components</strong></th>
<th><strong>100 tests</strong></th>
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</thead>
<tbody>
<tr>
<td>Lysozyme Assay Buffer</td>
<td>1 x 25ml</td>
</tr>
<tr>
<td>Lysozyme Stop Buffer</td>
<td>1 x 25ml</td>
</tr>
</tbody>
</table>
**Function**

Lysozymes have primarily a bacteriolytic function; those in tissues and body fluids are associated with the monocyte-macrophage system and enhance the activity of immunoagents.

**Involvement in disease**

Amyloidosis

**Sequence similarities**

Belongs to the glycosyl hydrolase 22 family.

**Cellular localization**

Secreted.

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**Images**

![Typical 4-Methylumbelliferon (4-MU) Standard Curve.](image1)

![Measurement of Lysozyme activity in human fluids. Assays were performed following kit protocols.](image2)
Measurement of Lysozyme activity in human cultured cell lysates. Assays were performed following kit protocols.

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

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