Neutrophil Elastase Inhibitor Screening Kit ab118971

Overview

Product name: Neutrophil Elastase Inhibitor Screening Kit
Assay type: Quantitative
Assay time: 0h 40m

Product overview: In Abcam’s Neutrophil Elastase Inhibitor Screening Kit, NE hydrolyzes a specific fluorescent substrate to release the fluorescent group, which can be detected at Ex/Em = 400/505 nm. In presence of a potent Neutrophil Elastase inhibitor, the hydrolyzation of substrate will be inhibited or stopped. The kit provides a rapid, simple, sensitive, and reliable test suitable as a high throughput screening assay of Neutrophil Elastase inhibitors. For comparison of the relative efficacy of test inhibitors, a control inhibitor, SPCK (Ki = 10 µM for human leukocyte elastase) is included.

Visit our FAQs page for tips and troubleshooting.

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>Assay Buffer</td>
<td>WM</td>
<td>1 x 25ml</td>
</tr>
<tr>
<td>Inhibitor Control (3 mM, SPCK)</td>
<td>Purple</td>
<td>1 x 100µl</td>
</tr>
<tr>
<td>Neutrophil Elastase</td>
<td>Green</td>
<td>1 vial</td>
</tr>
<tr>
<td>Substrate</td>
<td>Red</td>
<td>1 x 0.2ml</td>
</tr>
</tbody>
</table>

Relevance: Neutrophil Elastase (NE) is an aggressive and cytotoxic 29 kDa serine protease stored mainly in the azurophil granules of neutrophil granulocytes. It plays a role in the degradation of a wide range of extracellular matrix proteins, including fibronectin, laminin, proteoglycans, collagens, and elastin. When the extracellular NE concentration exceeds the buffering capacity of endogenous inhibitors, it becomes implicated in the signs, symptoms and disease progression of inflammatory lung disorders via its role in the inflammatory process, mucus overproduction and lung tissue damage.
Neutrophil Elastase Activity Profile at Various Concentrations of Elafin/Skalp (ab153768)

Neutrophil Elastase Inhibitor Screening Kit (ab118971)

Neutrophil Elastase Activity Profile at Various Concentrations of SERPINB1 (ab114774)

Neutrophil Elastase Inhibitor Screening Kit (ab118971)

Neutrophil Elastase Inhibition by SPCK

Functional Studies - Neutrophil Elastase Inhibitor Screening Kit (ab118971)
Neutrophil Elastase Activity Profile at Various Concentrations of SPCK

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"