CREATIVE BIOMART®
Assay Kit

Neutrophil Elastase Inhibitor Screening Kit (Fluorometric)

Product Information

Cat

Kit-2367

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Product Overview

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. In 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.

Applications

This kitcan be used for screening NE inhibitors and comes along with positive and negative control inhibitors

Storage

-20°C

Shipping

Gel Pack

Size

100 assays

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Kit Components
Assay Buffer; Substrate; Neutrophil Elastase; Inhibitor Control (3 mM, SPCK)
Detection method Fluorescence (Ex/Em 400/505 nm)
Features & Benefits
Simple procedure; takes ~ less than 40 minutes; Fast and convenient

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