CREATIVE BIOMART®
Assay Kit

Myeloperoxidase Assay Kit

Product Information

Cat

Kit-2459

Cat.No.

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Product Overview

MYELOPEROXIDASE (MPO; EC 1.11.2.2) is a peroxidase enzyme and can be found in neutrophil, monocytes, and some soft tissue macrophages. MPO has an ability to use chloride as a cosubstrate with hydrogen peroxide to generate hypochlorous acid, a powerful antimicrobial agent produced by neutrophils. However, an excessive production of hypochlorous acid can lead to oxidative stress and tissues damage. Inflammation may also result when MPO oxidizes various substances such as phenols and anilines. Studies show that increased MPO levels may increase the risk of myocardial infarction and cardiovascular disease. EnzyFluoTM myeloperoxidase (MPO) assay kit is based on the MPO enzyme reaction with hydrogen peroxide (H2O2) which oxidizes the dye reagent to a highly fluorescent product. The fluorescence intensity of this product, measured at &labda;ex/em = 530/585 nm, is proportional to the total peroxidation activity in the sample. The provided MPO inhibitor is used to suppress peroxidase activity due to MPO in order to differentiate other peroxidase activities that may be present in the samples.

Storage

-20°C

Shipping

On Ice

Size

100 tests

Detection method FL530/585nm

Compatible Sample Types

Tel: 1-631-559-9269 1-516-512-3133

Email:info@creative-biomart.org

Fax:1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA

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Cell lysates, tissues, etc

Features & Benefits

Fast and sensitive. Linear detection range (20 µL sample): 0.0025 to 2 U/L for 10 min reaction at 25°C. Convenient and high-throughput. Homogeneous "mix-incubate-measure" type assay. Can be readily automated on HTS liquid handling systems for processing thousands of samples per day.

Assay time

Approximately 30 min

Sensitivity

0.0025 U/L

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