CREATIVE BIOMART®
Assay Kit

Myeloperoxidase (MPO) Colorimetric Activity Assay Kit

Product Information

Cat

Kit-2292

Cat.No. Kit-2292

Product Overview

Myeloperoxidase (MPO) is a peroxidase enzyme (EC 1.11.1.7) most abundantly expressed in neutrophil granulocytes. It is a lysosomal protein stored in the azurophilic granules of the neutrophil. MPO contains a heme pigment which causes its green color in secretions rich in neutrophils, such as pus and some forms of mucus. MPO catalyzes the production of hypochlorous acid (HClO) fromhydrogen peroxide (H2O2) and chloride anion (Cl-, or the equivalent from a non-chlorine halide). MPO also oxidizes tyrosine to a tyrosyl radical using hydrogen peroxide as an oxidizing agent. In MPO Assay Kit, the HClO produced from H2O2 and Cl- is reacted with taurine to generate the taurine chloramine, which subsequently reacts with the TNB2- probe to eliminate color (λ = 412 nm). The kit provides a rapid, simple, sensitive, and reliable test suitable for high throughput activity assay of MPO. This kit can be used to detect MPO as low as 0.05 mU per well.

Storage

-20°C

Shipping

Gel Pack

Size

100 assays

Kit Components

MPO Assay Buffer; DTNB Probe; TCEP; MPO Substrate; Stop mix; MPO Positive Control

Target Species

Mammalian

Detection method Absorbance (412 nm)

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Features & Benefits

Simple procedure;
Fast and convenient;
Sensitive assays for measuring MPO as low as 0.05 mU per well

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