

## **Native Human Myeloperoxidase A+B**

Cat. No. NATE-0459

Lot. No. (See product label)

## Introduction

**Description** Myeloperoxidase (MPO) is a peroxidase enzyme that in humans is encoded by the

MPO gene on chromosome 17. MPO is most abundantly expressed in neutrophil granulocytes (a subtype of white blood cells), and produces hypohalous acids to carry out their antimicrobial activity. It is a lysosomal protein stored in azurophilic granules of the neutrophil and released into the extracellular space during

degranulation. MPO has a heme pigment, which causes its green color in secretions

rich in neutrophils, such as pus and some forms of mucus.

**Synonyms** MPOAB; MPOA+B; Myeloperoxidase A+B

## **Product Information**

**Species** Human

**Source** Human Neutrophils

**Form** Liquid

Purity > 98% (SDS-PAGE)

**Activity** Typically > 1,000 U/mL

**Pathway** C-MYB transcription factor network, organism-specific biosystem; Folate

Metabolism, organism-specific biosystem; IL23-mediated signaling events, organism-specific biosystem; Phagosome, organism-specific biosystem; Phagosome, conserved biosystem; Selenium Pathway, organism-specific

biosystem; Transcriptional misregulation in cancer, organism-specific biosystem

**Function** chromatin binding; heme binding; heparin binding; metal ion binding;

oxidoreductase activity; peroxidase activity

Unit Definition One unit of Myeloperoxidase will catalyze the consumption of one micromole of

hydrogen peroxide and the production of 1/4 micromole of tetraguaiacol per minute

1/1

at pH 7.0 and 25°C.

## Storage and Shipping Information

**Storage** 2-8°C