

Native Human Myeloperoxidase Isoform C

Cat. No. NATE-0461

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.

Applications Protein Crystalline Research

Synonyms MPOC; MPO C; Myeloperoxidase Isoform C; EC 1.11.1.7; 9003-99-0

Product Information

Species Human

Source Human Neutrophils

Form Liquid

EC Number EC 1.11.1.7

CAS No. 9003-99-0

Molecular Weight 146 kDa

Purity > 96% (SDS-PAGE)

Activity Typically > 1,000 U/mg protein

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 at pH 7.0 and 25°C.

Storage and Shipping Information

Storage 2-8°C