

Active Native Human Myeloperoxidase

Cat. No. MPO -27H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Myeloperoxidase purified from leucocytes of purulent human sputum which is >98 percent pure.
Species	Human
Source	Human Sputum
Description	Myeloperoxidase is a lysosomal protein stored in azurophilic granules of the neutrophil which produces hypochlorous acid from hydrogen peroxide and chloride anion during the neutrophil respiratory burst.
Form	Lyophilized powder
Bio-activity	155 Units/mg
Molecular Mass	59,000 Reduced
Unit Definition	1 unit will decompose 1 umole of H ₂ O ₂ per minute at pH 7.0 and 25 C using 4-amino-antipyrine as hydrogen donor. Recommended assay buffer: 0.1 M KPO ₄ ; pH 7.0
Usage	For in vitro laboratory use only
Notes	Optimal experimental conditions and working dilutions must be determined by the end user. Sample concentration and volume are for example purposes only and do not necessarily represent the product that will be received. Please contact us for a current

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 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

lot-specific product datasheet.

Stability

Supplied as a lyophilized, salt-free, green soluble powder which is stable for over a year when stored at 5 °C.

Storage

4°C

Shipping

Cold pack

GENE INFORMATION

Gene Name

[MPO myeloperoxidase \[Homo sapiens \]](#)

Official Symbol

MPO

Synonyms

MPO; myeloperoxidase;

Gene ID

[4353](#)

mRNA Refseq

[NM_000250](#)

Protein Refseq

[NP_000241](#)

MIM

[606989](#)

UniProt ID

[P05164](#)

**Chromosome
Location**

17q21.3-q23

Pathway

C-MYB transcription factor network, organism-specific biosystem; Folate Metabolism, organism-specific biosystem; IL23-mediated signaling events, organism-specific

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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;

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