

Recombinant Human MPO, GST-tagged

Cat. No. MPO-29360TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment with GST tag corresponding to amino acids 621-745 of Human Myeloperoxidase; 125 amino acids, 40kDa.
Species	Human
Source	E.coli
ProteinLength	621-745 a.a.
Description	Myeloperoxidase (MPO) is a heme protein synthesized during myeloid differentiation that constitutes the major component of neutrophil azurophilic granules. Produced as a single chain precursor, myeloperoxidase is subsequently cleaved into a light and heavy chain. The mature myeloperoxidase is a tetramer composed of 2 light chains and 2 heavy chains. This enzyme produces hypohalous acids central to the microbicidal activity of neutrophils.
Conjugation	GST
Form	Liquid
Storage buffer	Preservative: None Constituents: 20% Glycerol, 50mM Tris acetate, 1mM EDTA, pH 7.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

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Sequence Similarities Belongs to the peroxidase family. XPO subfamily.

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 biosystem; Phagosome, organism-specific biosystem; Phagosome, conserved biosystem;

Function chromatin binding; heme binding; heparin binding; metal ion binding; oxidoreductase activity;

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