

# Recombinant Human Myeloperoxidase

Cat. No. MPO-54H    Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human Myeloperoxidase protein encoding amino acids 621-745 expressed in <i>E.coli</i> . The MPO purified by proprietary chromatographic techniques.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	621-745 a.a.
<b>Description</b>	Myeloperoxidase is an important enzyme used by granulocytes during phagocytic lysis of foreign particles engulfed. In normal tissues and in a variety of myeloproliferative disorders myeloid cells of both neutrophilic and eosinophilic types, at all stages of maturation, exhibit strong cytoplasmic reactivity for MPO. Erythroid precursors, megakaryocytes, lymphoid cells, mast cells, and plasma cells are nonreactive. MPO is not observed in the neoplastic cells of a wide variety of epithelial tumors and sarcomas. MPO is useful in differentiating between myeloid and lymphoid leukemias.
<b>Physical Appearance</b>	Sterile liquid clear solution.
<b>Formulation</b>	The protein at 100 g/ml in 50mM Tris-Acetate, pH 7.5, 1mM EDTA and 20% Glycerol.
<b>Applications</b>	ELISA • Inhibition Assays • Western Blotting.
<b>Stability</b>	Store vial at -20°C to -80°C. When stored at the recommended temperature, this

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protein is stable for 12 months. Avoid multiple freeze-thaw cycles.

## GENE INFORMATION

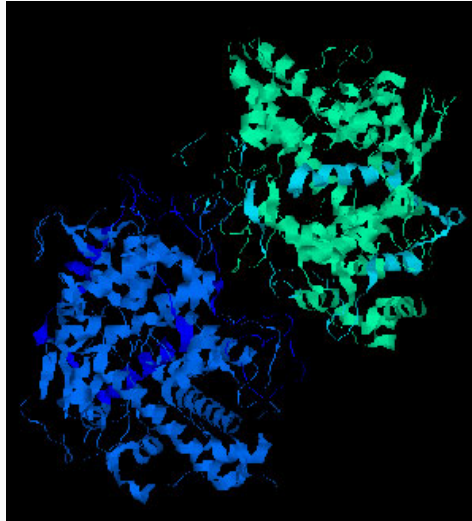
<b>Gene Name</b>	MPO myeloperoxidase [ Homo sapiens ]
<b>Synonyms</b>	MPO; myeloperoxidase; Myeloperoxidase;89 kDa myeloperoxidase; 84 kDa myeloperoxidase; Myeloperoxidase light chain; Myeloperoxidase heavy chain; EC 1.11.1.7; HGNC: 7218; Entrez Gene: 4353; UniProtKB: P05164; Ensembl: ENSG00000005381
<b>Gene ID</b>	4353
<b>mRNA Refseq</b>	NM_000250
<b>Protein Refseq</b>	NP_000241
<b>MIM</b>	606989
<b>UniProt ID</b>	P05164
<b>Chromosome Location</b>	17q23.1
<b>Function</b>	calcium ion binding; chromatin binding; heme binding; oxidoreductase activity; peroxidase activity

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**Myeloperoxidase**  
drawn from PDB  
1D7W.



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