

Recombinant Human Myeloperoxidase

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

SPECIFICATION

Product Overview	Recombinant Human Myeloperoxidase protein encoding amino acids 621-745 expressed in <i>E.coli</i> . The MPO purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
Protein Length	621-745 a.a.
Description	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.
Physical Appearance	Sterile liquid clear solution.
Formulation	The protein at 100 µg/ml in 50mM Tris-Acetate, pH 7.5, 1mM EDTA and 20% Glycerol.
Applications	ELISA • Inhibition Assays • Western Blotting.
Stability	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

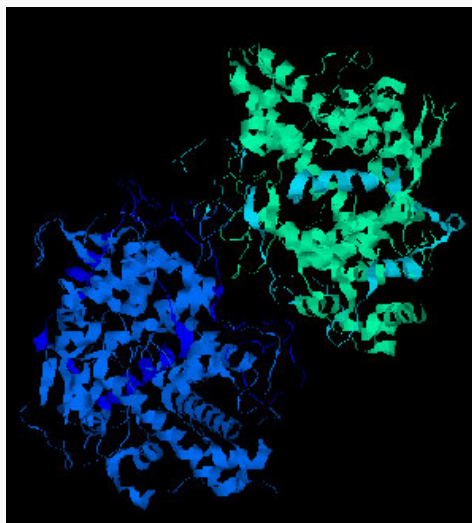
Gene Name	MPO myeloperoxidase [Homo sapiens]
Synonyms	MPO; myeloperoxidase; Myeloperoxidase; 89 kDa myeloperoxidase; 84 kDa myeloperoxidase; Myeloperoxidase light chain; Myeloperoxidase heavy chain; EC 1.11.1.7; HGNC: 7218; Entrez Gene: 4353; UniProtKB: P05164; Ensembl: ENSG00000005381
Gene ID	4353
mRNA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

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Myeloperoxidase
drawn from PDB
1D7W.



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