

Recombinant Human MPO Protein, His-tagged

Cat. No. MPO-51H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Myeloperoxidase is produced by our Mammalian expression system and the target gene encoding Ala49-Ser745 is expressed with a 10His tag at the C-terminus.
Species	Human
Source	Human Cells
ProteinLength	49-745 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.
AA Sequence	AAPAVLGEVDTSVLSSMEEAKQLVDKAYKERRESIKQRLRSGSASPMELLSYFKQP VAATRTAVRAADYLHVALDLLERKLRLSLWRRPFNVTDVLTTPAQLNVLSKSSGCAYQ DVGVTCPQDKYRTITGMCNNRRSPTLGASNRAFVRWLPAEYEDGFSLPYGWTPG VKRNGFPVALARAVSNEIVRFPTDQLTPDQERSLMFMQWGQLLDHDLDFTEPAAR ASFVTGVNCETSCVQQPPCFPLKIPPNDPRIKNQADCIPFFRSCPACPGSNITIRNQI NALTSFVDASMVYGSEEPLARNLRNMSNQLGLLAVNQRFQDNGRALLPFDNLHDD PCLLTNRSARIPCFLAGDTRSSEMPELTSMHTLLLREHNRLATELKS LNPRWDGERL

 Tel: 1-631-559-9269 1-516-512-3133

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

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

YQEARKIVGAMVQIITYRDYLPVLGPTAMRKYLPTYRSYNDSVDPRIANVFTNAFRY
 GHTLIQPFMFRLDNRYQPMENPRVPLSRVFFASWRVLEGGIDPILRGLMATPAKL
 NRQNQIAVDEIRERLFEQVMRIGLDLPALNMQSRDHGLPGYNARRFCGLPQPET
 VGQLGTVLRNLKLARKLMEQYGTPNNIDIWMGGVSEPLKRKGRVGPLLACIIGTQFR
 KLRDGD RFWWENEGVFSMQQRQALAQISLPRIICDNTGITTVSKNNIFMSNSYPRDF
 VNCSTLPALNLASWREASHHHHHHHHHH

Endotoxin Less than 0.1 ng/g (1 IEU/g) as determined by LAL test.

Purity Greater than 95% as determined by reducing SDS-PAGE.

Storage Lyophilized protein should be stored at < -20 centigrade, though stable at room temperature for 3 weeks.
 Reconstituted protein solution can be stored at 4-7 centigrade for 2-7 days.
 Aliquots of reconstituted samples are stable at < -20 centigrade for 3 months.

Storage Buffer Lyophilized from a 0.2 µm filtered solution of 20mM Tris, 150mM NaCl, pH8.0.

Reconstitution Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
 It is not recommended to reconstitute to a concentration less than 100 µg/mL.
 Dissolve the lyophilized protein in ddH₂O.
 Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

GENE INFORMATION

Gene Name MPO myeloperoxidase [Homo sapiens (human)]

Official Symbol MPO

Synonyms MPO; myeloperoxidase; myeloperoxidase; EC 1.11.2.2

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Gene ID	4353
mRNA Refseq	NM_000250
Protein Refseq	NP_000241
MIM	606989
UniProt ID	P05164
SDS-PAGE	