

Recombinant Human MPO Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MPO-4004H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MPO MS Standard C13 and N15-labeled recombinant protein (NP_000241) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	83.7 kDa
AA Sequence	MGVPFFSSLRCMVLDGPCWAGGLTAEMKLLLALAGLLAILATPQPSEGAAPAVLGE VDTSLVLSSMEEAKQLVDKAYKERRESIKQRLRSGSASPMELLSYFKQPVAATR TAVRAADYLHVALDLLERKLRLSLWRRPFNVTDVLT PAQLNVLSKSSGCAYQDVGVTCP EQDKYRTITGMCNNRRSPTLGASNRAFVRWLP AEYEDGFSLPYGWTPGVKRNGFPV ALARAVSNEIVRFPTDQLTPDQERSLMFMQWG QLLDHDLDFTPEPAARASFVTGVN CETSCVQQPPCFPLKIPPNDPRIKNQADCIPFF RSCPACPGSNITIRNQINALTSFVDA SMVYGSEEPLARNLRNMSNQLGLLAVNQRFQD NGRALLPFDNLHDDPCLLTNRSA

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RIPCFLAGDTRSSEMPELTSMHTLLLREHNRLATELKSLNPRWDGERLYQEARKIVG
 AMVQIITYRDYLPVLGPTAMRKYLPTYRSYNDSDPRIANVFTNAFRYGHITLIQPFM
 FRLDNRYQPMENPRVPLSRVFFASWRVVLEGGIDPILRGLMATPAKLNQRQNQIAVD
 EIRERLFEQVMRIGLDLPALNMQRSRDHGLPGYNARRFCGLPQPETVGQLGTVLR
 NLKLARKLMEQYGTPNNIDIWMGGVSEPLKRKGRVGPLLACIIGTQFRKL RDGDRF
 WWENEGVFSMQQRQALAQISLPRIICDNTGITTVSKNNIFMSNSYPRDFVNCSTLPA
 LNLASWREASTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name MPO myeloperoxidase [Homo sapiens (human)]

Official Symbol MPO

Synonyms MPO; myeloperoxidase; myeloperoxidase; EC 1.11.2.2

Gene ID 4353

mRNA Refseq NM_000250

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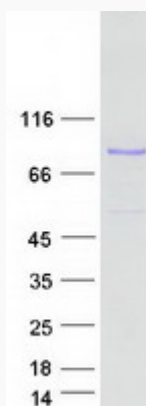
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Protein Refseq NP_000241

MIM 606989

UniProt ID P05164

SDS-PAGE



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