

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

MGVPPFFSSLRCMVLDLGPCWAGGLTAEMKLLLALAGLLAILATPQPSEGAAPAVLGE
 VDTSLVLSSMEEAKQLVDKAYKERRESIKQRLRSGSASPMELLSYFKQPVAATR
 TAVRAADYLHVALDLLERKLRSLWRRPFNVTDVLT
 PAQLNVLSKSSGCAYQDVGVTCP
 EQDKYRTITGMCNNRRSPTLGASNRAFVRWLP
 AEYEDGFSLPYGWTPGVKRN
 GFPVALARAVSNEIVRFPTDQLTPDQERSLMFMQWGQLLDHDLDF
 TPEPAARASFVTGVN
 CETSCVQQPPCFPLKIPPNDPRIKNQADCIPFFRSC
 PACPGSNITIRNQINALTSFVDA
 SMVYGSEEPLARNLRNMSNQLGLLAVNQRFQDNGR
 ALLPFDNLHDDPCLLTNRSA

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RIPCFLAGDTRSSEMPELTSMHLLLLREHNRLATELKSLNPRWDGERLYQEARKIVG
 AMVQIITYRDYLPLVLGPTAMRKYLPTYRSYNDSVDPRIANVFTNAFRYGHTLIQPFM
 FRLDNRYQPMENPRVPLSRVFFASWRVVLEGGIDPILRGLMATPAKLNQRQNQIAVD
 EIRERLFEQVMRIGLDLPALNMQRSRDHGLPGYNARRFCGLPQPETVGQLGTVLR
 NLKLARKLMEQYGTPNNIDIWMGGVSEPLKRKGRVGPLLACIIGTQFRKLRDGRF
 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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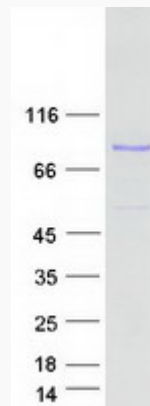
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Protein Refseq NP_000241

MIM 606989

UniProt ID P05164

SDS-PAGE



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