

Recombinant Full Length Human MPO Protein, C-Flag-tagged

Cat. No. MPO-1300HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human MPO Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	83.7 kDa
AA Sequence	MGVPFFSSLRCMVLDLGPCWAGGLTAEMKLLLALAGLLAILATPQPSEGAAPAVLGE VDTSLVLSSMEEAK QLVDKAYKERRESIKQRLRSGSASPMELLSYFKQPVAATR VRAADYLHVALDLLERKLRLSLWRRPFNV TDVLTPAQLNVLSKSSGCAYQDVGVTCP EQDKYRTITGMCNNRRSPTLGASNRAFVRWLPAEYEDGFSLP YGWTPGVKRN GF PVALARAVSNEIVRFPTDQLTPDQERSLMFMQWGQLLDHDLDFTEPEAARAS FVTG VN CETSCVQQPPCFPLKIPPNDPRIKNQADCIPFFRSCPACPGSNITIRN QINALTSF VDASMVYGSEEPLA RNLNRMSNQLGLLAVNQRFQDNGRALLPFDNLHDDPCLLTN

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RSARIPCFLAGDTRSSEMPELTSMHTLLL REHNRLATELKSLNPRWDGERLYQEAR
 KIVGAMVQIITYRDYLPVLGPTAMRKYLPTYRSYNDSVDPRI ANVFTNAFRYGHITI
 QPFMFRLDNRYQPMEPNPRVPLSRVFFASWRVVLEGGIDPILRGLMATPAKLNQ
 NQIAVDEIRERLFEQVMRIGLDLPALNMQRSRDHGLPGYNARRFCGLPQPETVGQ
 LGTVLRNLKLARKL MEQYGTPNNIDIWMGGVSEPLKRKGRVGPLLACIIGTQFRKLR
 DGDRFWWENEGVFSMQQRQALAQISLP
 RIICDNTGITTVSKNNIFMSNSYPRDFVNCSTLPALNLASWREASTRTRPLEQKLISEE
 DLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Full Length	Full L.

GENE INFORMATION

Gene Name	MPO myeloperoxidase [Homo sapiens (human)]
Official Symbol	MPO

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Synonyms	Myeloperoxidase
Gene ID	4353
mRNA Refseq	NM_000250.2
Protein Refseq	NP_000241.1
MIM	606989
UniProt ID	P05164

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