

Active Recombinant Full Length Human myeloperoxidase Protein, His tagged

Cat. No. MPO-10HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human MPO Protein with a C-terminal 10-His tag was expressed in Mouse myeloma cell line.
Species	Human
Source	NS0
ProteinLength	1-745aa
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.
Tag	C-10xHis
Bio-activity	Measured by its ability to oxidize guaiacol in the presence of hydrogen peroxide. The specific activity is > 50,000 pmol/min/μg, as measured under the described conditions.
Molecular Mass	80 kDa

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N-terminal Sequence Analysis	Ala49
Endotoxin	< 1 EU/μg by LAL
Purity	> 90% by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 centigrade as supplied. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in Tris and NaCl.
Reconstitution	Reconstitute at 0.5-1 mg/mL in sterile, deionized water.
Shipping	The product is shipped with polar packs.
References	<ol style="list-style-type: none"> 1. Klebanoff, S.J. (2005) J. Leukoc. Biol. 77:598. 2. Hansson, M. et al. (2006) Arch. Biochem. Biophys. 445:214. 3. Hashinaka, K. et al. (1988) Biochemistry 27:5906.

GENE INFORMATION

Gene Name	MPO myeloperoxidase [Homo sapiens (human)]
Official Symbol	MPO
Synonyms	MPO; myeloperoxidase;
Gene ID	4353

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mRNA Refseq	NM_000250
Protein Refseq	NP_000241
MIM	606989
UniProt ID	P05164

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