

Active Native Human MPO Protein

Cat. No. MPO-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Human MPO Protein was a clear, green solution which was purified from human neutrophils. RZ Value: > 0.8 (A430/A280) A430, E0.1%=1.19
Species	Human
Source	Neutrophils
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	Powder, lyophilized
Bio-activity	Activity: Reported in U/vial or U/mg solid Specific: Activity Report in U/mg protein
Purity	> 96 % by SDS-PAGE
Unit Definition	One unit of Myeloperoxidase will catalyze the consumption of one micromole of hydrogen peroxide and the production of ¼ micromole of tetraguaiacol per minute at

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	pH 7.0 and 25 centigrade.
Applications	Immunoassay/Immunology, Cardiac, Inflammation
Storage	At -20 centigrade.
Concentration	1 mg/mL 0.05 M phosphate, pH 7.0.
Storage Buffer	Sodium acetate, pH 6.0.

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
Protein Refseq	NP_000241
MIM	606989
UniProt ID	P05164

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