

Active Native Human MPO Protein

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

SPECIFICATION

Product Overview	<p>Native Human MPO Protein was a clear, green solution which was purified from human neutrophils.</p> <p>RZ Value: > 0.8 (A430/A280)</p> <p>A430, E0.1%=1.19</p>
Species	Human
Source	Neutrophils
Description	<p>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.</p>
Form	Powder, lyophilized
Bio-activity	<p>Activity: Reported in U/vial or U/mg solid</p> <p>Specific: Activity Report in U/mg protein</p>
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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