Molecular Weight: 130,000-150,000

Physical Specifications:
Lyophilized
Purity: >= 95% by SDS-PAGE

Considerations:
Virginia B. Patel PhD

ART Catalog No. 16-14-13000

SDS-PAGE:
4-12% Bis-Tris NuPAGE gel

Myeloperoxidase, Human Neutrophil

1. MP  -   5 µg (reduced /heated)
2. MP  - 10  µg (reduced/ heated)
3. MP  - 20  µg (reduced /heated)
4. LMW Standard (BIO-RAD Cat. No. 161-0304)

97.4 kDa
66.2 kDa
45.0 kDa
31.0 kDa
21.5 kDa
14.4 kDa

Storage Conditions: <= -20°C
Stability > 1 year
Buffer: 50 mM Na acetate, pH 6.0 with 100 mM NaCl

Protein Determination:
Extinction Coefficient (E) 0.1% at 280nm

1cm pathway = 1.45

Activity:
180-220 units per mg protein after lyophilization. One unit of activity is defined as the amount of enzyme that will decompose one micromole of hydrogen peroxide per minute at 25°C, pH 6.1. Reaction mixture contains 30 mM sodium phosphate, pH 6.1, 30 mM guaiacol, and 0.0012% (0.35 mM) hydrogen peroxide.

Myeloperoxidase, Human Neutrophil

Catalog Number: 16-14-130000

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Molecular Weight: MW 130,000-150,000

Protein Determination:

Storage: <= -20°C

Stability: > 1 year

Available Packaging: 100 µg per vial

Larger aliquots upon request

Source: Human Neutrophils

Testing: Shown to be non-reactive for HBsAg, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2 by FDA approved tests.

Extinction Coefficient (E) 0.1% at 280nm 1cm pathway = 1.45

Athens Research & Technology products are laboratory reagents and are not to be administered to humans or used for any drug purpose.

For research use only.

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Product Name:    Myeloperoxidase, Human Neutrophil
Catalog Number:    16-14-130000
Lot Number:     Information applies to all lots produced.

Manufacturing Information:   The methods and controls used in this facility for manufacturing, processing, packaging and holding of our products are in accordance with ISO9001:2008 Quality Management System.

Manufacturing Site:    Athens Research & Technology Inc., Athens, Georgia, USA

Raw Material Information:   The product contains no materials directly of animal origin and has not been in contact with products of animal origin in the course of its puri/f_ication.

Country of Origin (manufacturing):  United States

Biological Source Material (COO):  United States

Donor Consent:   The raw material used in the puri/f_ication of this product has been obtained from an FDA licensed collection center.  Further the donor or the donor's next of kin has given by signature full informed consent for the material to be used in commercial scienti/f_ic research, including the sharing, transferring, or selling of samples to third parties involved in this research. The raw material was obtained in an ethical manner in full compliance with national legislation, and the donor identity is held as con/f_idential information by the licensed collection center.

ISO9001:2008