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MPO

Native Human Myeloperoxidase (MPO)

Catalog No. CS230A Quantity: $100 \mu g$

CS230B 1.0 mg

Alternate Names: MPO

Description: Myeloperoxidase 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 two light chains and two heavy chains. This enzyme produces hypohalous acids central to the microbicidal activity of

neutrophils.

Myeloperoxidase purified from leucocytes of purulent human sputum. Supplied as a

lyophilized, salt-free, green soluble powder.

UniProt ID: P05164

Gene ID: 4353

Source: Human sputum

Molecular Weight: 130,000 - 150,000 Da

Formulation: Lyophilized from 50 mM Na acetate, pH 6.0 with 100 mM NaCl

Purity: >95% by SDS-PAGE analysis

Extinction Coefficient: $E^{0.1\%}_{280nm} = 1.45$

Specific Activity: 180-220 Units/mg

Unit Definition:One unit is defined as the amount of enzyme that decomposes one umole of hydrogen

peroxide per minute at 25° C , pH 6.0. Reaction mixture contains 30mM sodium phosphate, pH 6.1, 30mM guaiacol, and 0.0012% (0.35mM) hydrogen peroxide.

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Reconstitution: Reconstitute at 0.1-1.0 mg/ml using 0.1 M KPO4, pH 7.0. Allow several minutes for

complete reconstitution. Do not vortex.

Storage & Stability: Store at -80°C for up to 1 year. Upon reconstitution, prepare working aliquots and store

at -80°C. Avoid repeated freeze-thaw cycles.

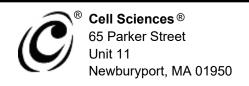
Certification: Prepared from donors shown to be non reactive for HbsAG, anti-HCV, anti-HBc, and

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negative for anti-HIV 1 & 2 by FDA approved tests.



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