

**DATA SHEET**

**Product Name:** Myeloperoxidase, Human Neutrophil

**Catalog #:** A-2007

**Molecular Mass:** 150,000 Da

**Protein Purity:** >95% by SDS-PAGE

**Handling:** Store in Tightly Sealed Vial

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

**Storage:** -20°C / Freezer

**Activity:** 150-200 units per mg protein. One unit is defined as the amount of enzyme that decomposes one  $\mu$ mole of hydrogen peroxide per minute at 25°C, pH 6.0.

**Description:** Myeloperoxidase (MPO) was found to be a key oxidant-producing enzyme during inflammation and it appeared to be upregulated in the ventral midbrain of human PD. It has been suggested that inhibitors of MPO "may provide a protective benefit in PD"<sup>1</sup>. Although unexpected, myeloperoxidase expression was found in neurons and it increased in brain tissue showing AD neuropathology. Thus it is possible that MPO contributes to the oxidative stress implicated in the pathogenesis of the neurodegenerative disorder.

**References:**

1. Choi, D.K., et al., (2005) The J. Neuroscience, 25(28): 6594-6600
2. Green, P.S., (2004) J. Neurochemistry, 90(3): 724 -733

**Notes:** Prepared from plasma shown to be non reactive for HbsAG, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2 by FDA approved tests.

***For research use only. Not for use in humans.***