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DATA SHEET

Product Name:	Myeloperoxidase, Human Neutrophil
Catalog #:	A-2007-1
Molecular Mass:	150,000 kDa
Appearance:	Lyophilized from 50 mM Na acetate, pH 6.0 with 100 mM NaCl
Activity:	150-200 units per mg protein. One unit is defined as the amount of enzyme that decomposes one μ mole of hydrogen peroxide per minute at 25°C, pH 6.0.
Storage:	Freezer
Handling:	Store in Tightly Sealed Vial
Purity:	\geq 95% by SDS-PAGE
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"¹. 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, PS, (2004), J. Neurochemistry, **90**(3): 724 -733.

Note: *Prepared from whole blood 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.

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