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Recombinant Mouse MPO

Catalog#:P01449 Derived from Human Cells

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DESCRIPTION	Recombinant Mouse Myeloperoxidase is produced by our Mammalian expression system and the target gene encoding Met16-Thr718 is expressed with a 10His tag at the C-terminus. Accession#: P11247 Known as: Myeloperoxidase; MPO
FORMULATION	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
SHIPPING	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
STORAGE	Lyophilized protein should be stored at<-20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
RECONSTITUTION	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
QUALITY	Mol Mass:81.1kDa AP Mol Mass:93kDa, reducing conditions.
CONTROL	Purity : Greater than 95% as determined by reducing SDS-PAGE. Endotoxin : Less than 0.1 ng/μg (1 EU/μg) as determined by LAL test.
BACKGROUND	Myeloperoxidase (MPO) is a hemecontaining enzyme belonging to the XPO subfamily of peroxidases. It is an abundant neutrophil and monocyte glycoprotein that catalyzes the hydrogen peroxidedependent conversion of chloride, bromide, and iodide to multiple reactive species. MPO activity result in protein nitrosylation and the formation of 3-chlorotyrosine and dityrosine crosslinks. Modification of ApoB100, as well as the lipid and cholestero components of LDL and HDL, promotes the development of atherosclerosis MPO is also associated with a variety of other diseases, and inhibit vasodilation in inflammation by depleting the levels of NO. Serum albumin functions as a carrier protein during MPO movement to the basolateral side of epithelial cells. MPO is stored in neutrophil azurophilic granules. Upon cellula activation, it is deposited into pathogencontaining phagosomes. While michacking MPO are impaired in clearing select microbial infections, MPO deficiency in humans does not necessarily result in heightened susceptibility to infections.
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