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32-8968: Recombinant Mouse Myeloperoxidase/MPO (C-10His)

Gene : Mpo
Gene ID : 17523
Uniprot ID : P011247

Description

Source: Human Cells.
MW :81.1kD.
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. 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 results in protein nitrosylation and the formation of 3-chlorotyrosine and dityrosine crosslinks. Modification of ApoB100, as well as the lipid and cholesterol components of LDL and HDL, promotes the development of atherosclerosis. MPO is also associated with a variety of other diseases, and inhibits 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 cellular activation, it is deposited into pathogencontaining phagosomes. While mice lacking MPO are impaired in clearing select microbial infections,MPO deficiency in humans does not necessarily result in heightened susceptibility to infections.

Product Info

Amount :	10 µg / 50 µg
Purification :	Purity is >95%. Lyophilized from a 0.2 Âµm filtered solution of PBS, pH7.4.
Content :	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 results in protein nitrosylation and the formation of 3-chlorotyrosine and dityrosine crosslinks. Modification of ApoB100, as well as the lipid and cholesterol components of LDL and HDL, promotes the development of atherosclerosis. MPO is also associated with a variety of other diseases, and inhibits 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 cellular activation, it is deposited into pathogencontaining phagosomes. While mice lacking MPO are impaired in clearing select microbial infections,MPO deficiency in humans does not necessarily result in heightened susceptibility to infections.
Storage condition :	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.
Amino Acid :	MLQTSNGATPALLGEVENSVVLSCMEEAKQLVDRAYKERRESIKRSLQSGSASPTELLFYFKQPVAGTRTAVRA ADYLHVALDLLKRKLQPLWPRPFNVTDVLTPAQLNLLSVSSGCAYQDVRVTCPPNDKYRTITGHCNNRRSPTLG ASNRAFVRWLPAEYEDGVSMPFGWTPGVNRNGFKVPLARQVSNAIVRFPNDQLTKDQERALMFMQWGQFLD HDITLTPEPATRFSFFTGLNCETSCLQQPPCFPLKIPPNDPRIKNQKDCIPFFRSCPACTRNNITIRNQINALTSFVD ASGVYGSEDPLARKLRNLTNQLGLLAINTRFQDNGRALMPFDSLHDDPCLLTNRSARIPCFLAGDMRSSEMPEL TSMHTLFVREHNRLATQLKRLNPRWNGEKLYQEARKIVGAMVQIITYRDYLPLVLGPAAMKKYLPQYRSYNDSV DPRIANVFTNAFRYGHTLIQPFMFRLNNQYRPTGPNPRVPLSKVFFASWRVVLEGGIDPILRGLMATPAKLNRQN QIVVDEIRERLFEQVMRIGLDLPALNMQRSRDHGLPGYNAWRRFCGLPQPSTVGELGTVLKNLELARKLMAQY GTPNNIDIWMGGVSEPLEPNGRVGQLLACLIGTQFRKLRDGDRFWWENPGVFSKQQRQALASISLPRIICDNT GITTVSKNNIFMSNTYPRDFVSCNTLPKLNLTSWKETHHHHHHHHHH

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Application Note

Endotoxin : Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test.

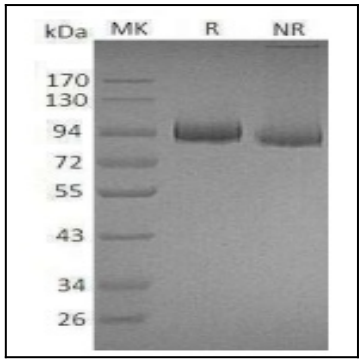

Figure 1: Recombinant Mouse MPO ran on SDS-Page under reducing and non-reducing conditions.