

## Datasheet for ABIN7505581 Myeloperoxidase Protein (MPO) (AA 49-745) (His tag)



Overview

Quantity:	100 µg
Target:	Myeloperoxidase (MPO)
Protein Characteristics:	AA 49-745
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Myeloperoxidase protein is labelled with His tag.

## Product Details

Sequence:	Ala49-Ser745	
Characteristics:	Recombinant Human Myeloperoxidase is produced by our Mammalian expression system and the target gene encoding Ala49-Ser745 is expressed with a 10His tag at the C-terminus.	
Purity:	> 95 % as determined by reducing SDS-PAGE.	
Endotoxin Level:	<1.0 EU per $\mu$ g of the protein as determined by the LAL method.	

## Target Details

Target:	Myeloperoxidase (MPO)	
Alternative Name:	Myeloperoxidase (MPO Products)	
Background:	Abbreviation: Myeloperoxidase,MPO	
	Target Synonym: Myeloperoxidase,MPO	
	Background: Myeloperoxidase (MPO) is a heme-containing enzyme belonging to the XPO	

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	subfamily of peroxidases. It is an abundant neutrophil and monocyte glycoprotein that
	catalyzes the hydrogen peroxide-dependent conversion of chloride, bromide, and iodide to
	multiple reactive species. Post-translational processing of MPO involves the insertion of a
	heme moiety and the proteolytic removal of both a propeptide and a 6 aa internal peptide. This
	results in a disulfide-linked dimer composed of a 60 kDa heavy and 12 kDa light chain that
	associate into a 150 kDa enzymatically active tetramer. The tetramer contains two heme
	groups and one disulfide bond between the heavy chains. Alternate splicing generates two
	additional isoforms of MPO, one with a 32 aa insertion in the light chain, and another with a
	deletion of the signal sequence and part of the propeptide. Human and mouse MPO share 87 $\%$
	aa sequence identity. MPO activity results in protein nitrosylation and the formation of 3-
	chlorotyrosine and dityrosine crosslinks. 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 pathogen-containing phagosomes.
Molecular Weight:	Calculated MW: 80.3 kDa
	Observed MW: 85-95 kDa
UniProt:	P05164
Pathways:	Chromatin Binding
Application Details	
Restrictions:	For Research Use only
Restrictions: Handling	For Research Use only
	For Research Use only Lyophilized
Handling	
Handling Format:	Lyophilized
Handling Format:	Lyophilized Lyophilized from a 0.2 um filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 8.0.
Handling Format:	Lyophilized Lyophilized from a 0.2 um filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before
Handling Format: Buffer:	Lyophilized Lyophilized from a 0.2 um filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.
Handling Format: Buffer: Storage:	Lyophilized Lyophilized from a 0.2 um filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. 4 °C,-20 °C,-80 °C

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Expiry Date:

12 months

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