

Myeloperoxidase Active Protein | MPO active protein

Myeloperoxidase (MPO), Human Neutrophil

CATALOG # AAA11485	HOST Human Neutrophils
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PRODUCT SYNONYMS

Myeloperoxidase; Myeloperoxidase (MPO); Human Neutrophil; MPO; Myeloperoxidase Antigen (MPO); pANCA - Human - >=96% (SDS-PAGE) - Lyophilized; MPO active protein

PRODUCT SPECIFICATIONS

Host	Human Neutrophils
Purity/Purification	≥ 96% (SDS-PAGE)
Form/Format	Powder, Lyophilized from sodium acetate, pH 6.0
Sequence Length	745
Appearance	Light green powder
Unit Definition	One unit of Myeloperoxidase will catalyze the consumption of one micromole of hydrogen peroxide and the production of 1/4 micromole of tetraguaiacol per minute at pH 7.0 and 25°C.
Activity	70 units/vial
Rz	0.84 (A_{430}/A_{280})
Solubility	Clear, green solution (1 mg/mL 0.05M phosphate buffer, pH 7.0)
Protein	≥ 0.1mg protein/vial ($E^{0.1\%}_{430nm}=1.19$)
CAS Number	9003-99-0
EC Number	1.11.2.2
Recovery	Microfuge vial before drawing from container.
Specific Activity	730 units/mg protein
Preparation and Storage	Store at -20°C. Protect from moisture

ADDITIONAL INFORMATION

Related Product Information for MPO active protein	We are the largest primary manufacturer of Myeloperoxidase (MPO) enzymes for medical research and manufacturing globally. Custom preparations, technical support, bulk quantities and aliquoting available. Rz is an abbreviation for Reinheitszahl (purity number). It is the ratio of absorbance at 430 nm (heme)/ 280 nm (total protein). It is a measure of the purity of the enzyme. Anything above 0.8 is highly pure. MPO is a peroxidase enzyme occurs the most in neutrophil granulocytes (a subtype of white blood cells). It is a lysosomal protein stored in azurophilic granules of the neutrophil. Myeloperoxidase has a green heme pigment and is found in pus and some forms of mucus. It is recognized as an important factor in many inflammatory diseases such as cardiovascular and neurological diseases. MPO-specific imaging agents would thus be highly useful to identify early disease, monitor disease progression, and quantify treatment effects.
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Product Categories/Family for MPO
active protein

Proteins; Antigens; Enzymes; Standards/controls; Native Proteins; Immunogen; Myeloperoxidase (mpo) Antigen

NCBI AND UNIPROT INFORMATION

NCBI GI #	188658
NCBI GeneID	4353
UniProt Accession #	P05164; Q14862; Q4PJH5; Q9UCL7; A1L4B8
NCBI Official Full Name	myeloperoxidase
NCBI Official Synonym Full Names	myeloperoxidase
NCBI Official Symbol	MPO
NCBI Protein Information	myeloperoxidase
UniProt Protein Name	Myeloperoxidase
UniProt Gene Name	MPO
UniProt Synonym Gene Names	MPO
UniProt Entry Name	PERM_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-neutrophils-active-protein/myeloperoxidase/11485>