Certificate of Analysis & Data Sheet

Catalog Number: 230-30039B

Recombinant Human Myeloperoxidase (MPO), Biotinylated

Source

Species	Human
Accession Number	P05164
Gene Symbol	MPO
Gene ID	4353
Expressed Region	Ala49-Ser745
Synonyms	Myeloperoxidase, MPO.

Preparation

Expression System	Human Embryonic Kidney 293 Cells
Tag	N-terminal histidine tag. The primary amino groups (-NH2) at the N-terminus and the side chains of lysine (K) residues were biotin-conjugated using the standard chemical labeling method.
Purification	His-tag affinity purification by immobilized metal ion affinity chromatography (IMAC)
Purity	>95%
Purity Determined By	SDS-PAGE under reducing conditions and visualized by Coomassie blue staining
Molecular Weight	Recombinant protein has a calculated molecular weight of about 82 kDa. Due to the abundant glycosylation, it migrates as approximately 90-100 kDa protein bands in SDS-PAGE under DTT, beta-mercaptoethanol reducing conditions.

Protein Specifications

Format	Lyophilized powder, slight green
Formulation	Lyophilized from a 0.2 um filtered solution in PBS
Concentration	Determined by Pierce BCA protein assay kit
Preservative	None
Endotoxin Level	Not determined
Recommended Applications	Functional Assay, Protein-protein Interaction, Post-translational Modifications, ELISA, EIA, Western Blotting, Dot Blotting, Immunoprecipitation, Protein Array, etc.
Reconstitution	Briefly spin the vial and bring the contents to the bottom prior to opening. It is recommended to reconstitute at 0.5 - 1 mg/mL with sterile deionized water.

Shipping

Ice packs

Storage/Stability

Upon arrival, the lyophilized protein may be stored for 2 weeks at 4°C. For long term storage, it is recommended to store desiccated below -20 °C in a manual defrost freezer. Following reconstitution, the protein may be stored for 2 weeks under sterile conditions at -20 °C. For long term storage, it is recommended to make appropriate aliquots and store at -80 °C. Avoid repeated freeze-thaw cycles.