

## ARG82072 Human MPO / Myeloperoxidase ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

Cat. No.	Component Name	Package	Temp
ARG82072-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82072-002	Standard	2 X 20 ng/vial	4°C
ARG82072-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82072-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82072-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82072-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82072-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82072-008	25X Wash buffer	20 ml	4°C
ARG82072-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82072-010	STOP solution	10 ml (Ready to use)	4°C
ARG82072-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG82072 Human MPO / Myeloperoxidase ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human MPO / Myeloperoxidase in serum, plasma (heparin, EDTA), saliva, urine and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	MPO / Myeloperoxidase
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	156 pg/ml
Sample Type	Serum, plasma (heparin, EDTA), saliva, urine and cell culture supernatants.
Standard Range	312 - 20000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 6.1%; Inter-Assay CV: 7.2%
Alternate Names	MPO; Myeloperoxidase; EC 1.11.2.2

## Application Instructions

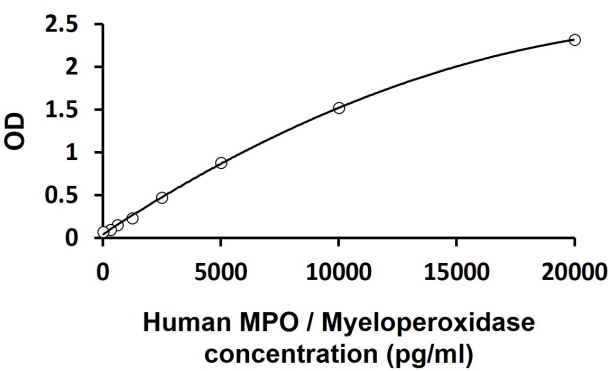
Assay Time	~ 5 hours
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## Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Gene Symbol	MPO
Gene Full Name	myeloperoxidase
Background	Myeloperoxidase (MPO) is a heme protein synthesized during myeloid differentiation that constitutes the major component of neutrophil azurophilic granules. Produced as a single chain precursor, myeloperoxidase is subsequently cleaved into a light and heavy chain. The mature myeloperoxidase is a tetramer composed of 2 light chains and 2 heavy chains. This enzyme produces hypohalous acids central to the microbicidal activity of neutrophils. [provided by RefSeq, Nov 2014]
Function	Myeloperoxidase (MPO): Part of the host defense system of polymorphonuclear leukocytes. It is responsible for microbicidal activity against a wide range of organisms. In the stimulated PMN, MPO catalyzes the production of hypohalous acids, primarily hypochlorous acid in physiologic situations, and other toxic intermediates that greatly enhance PMN microbicidal activity. [UniProt]
Highlight	<p>Related products:</p> <p><a href="#">MPO antibodies</a>; <a href="#">MPO ELISA Kits</a>; <a href="#">MPO Duos / Panels</a>;</p> <p>Related news:</p> <p><a href="#">Exploring Antiviral Immune Response</a></p> <p>New ELISA data calculation tool:</p> <p><a href="#">Simplify the ELISA analysis by GainData</a></p>



ARG82072 Human MPO / Myeloperoxidase ELISA Kit standard curve image

ARG82072 Human MPO / Myeloperoxidase ELISA Kit results of a typical standard run with optical density reading at 450 nm.