

ARG82770 MPO / Myeloperoxidase Activity Assay Kit (Colorimetric)

Package: 200 assay
Store at: 4°C

Summary

Product Description	ARG82770 MPO / Myeloperoxidase Activity Assay Kit (Colorimetric) can be used to measure Myeloperoxidase activity in whole neutrophils, neutrophil lysates, tissue homogenates and plasma (EDTA).
Tested Reactivity	Hu, Ms, Rat, All
Tested Application	FuncSt
Target Name	MPO / Myeloperoxidase
Conjugation Note	Read at 405 nm (colorimetric)
Sensitivity	4.2 µM (0.63 nmol/well, based on 150 µl volume/well)
Detection Range	4.2 - 333 µM (0.63 - 50 nmol/well, based on 150 µl volume/well)
Sample Type	Whole neutrophils, neutrophil lysates, tissue homogenates and plasma (EDTA).
Sample Volume	25 µl
Alternate Names	MPO; Myeloperoxidase; EC 1.11.2.2

Application Instructions

Application Note	Please note that this kit does not include a microplate.
Assay Time	~ 2.5 hours

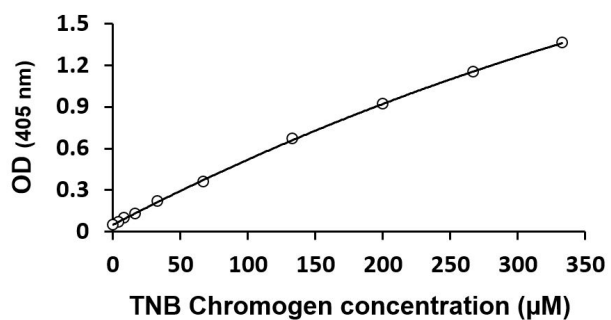
Properties

Form	Liquid
Storage instruction	Store the kit at 2-8°C. 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	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]

Images



ARG82770 MPO / Myeloperoxidase Activity Assay Kit (Colorimetric) typical data demonstration image

ARG82770 MPO / Myeloperoxidase Activity Assay Kit (Colorimetric) results of a typical standard run with optical density reading at 405 nm, using colorimetric reading.