

Human Inositol oxygenase (MIOX) ELISA Kit | MIOX elisa kit

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CATALOG #
AAA246950

REACTIVITY
Human

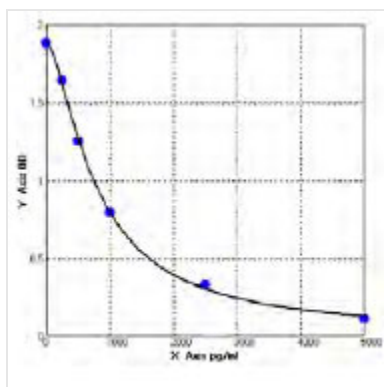
PRODUCT SYNONYMS

Inositol oxygenase (MIOX); Human Inositol oxygenase (MIOX) ELISA Kit; MIOX elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of MIOX. No significant cross-reactivity or interference between MIOX and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between MIOX and all the analogues, therefore, cross reaction may still exist in some cases.
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Assay Type	Quantitative Competitive
Sensitivity	1.0 pg/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for MIOX elisa kit	Intended Uses: This MIOX ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human MIOX. This ELISA kit for research use only, not for therapeutic or test applications! Principle of the Assay: MIOX ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-MIOX antibody and an MIOX-HRP conjugate. The assay sample and buffer are incubated together with MIOX-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the MIOX concentration since MIOX from samples and MIOX-HRP conjugate compete for the anti-MIOX antibody binding site. Since the number of sites is limited, as more sites are occupied by MIOX from the sample, fewer sites are left to bind MIOX-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The MIOX concentration in each sample is interpolated from this standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	33667030
NCBI GeneID	55586
NCBI Accession #	NP_060054.4
NCBI GenBank Nucleotide #	NM_017584.5
Molecular Weight	24,516 Da
NCBI Official Full Name	inositol oxygenase
NCBI Official Synonym Full Names	myo-inositol oxygenase
NCBI Official Symbol	MIOX
NCBI Official Synonym Symbols	ALDRL6
NCBI Protein Information	inositol oxygenase; MI oxygenase; aldehyde reductase-like 6; kidney-specific protein 32; renal-specific oxidoreductase; aldehyde reductase (aldose reductase) like 6
UniProt Protein Name	Inositol oxygenase
UniProt Gene Name	MIOX
UniProt Synonym Gene Names	ALDRL6; KSP32; RSOR; MI oxygenase
UniProt Entry Name	MIOX_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.