

Human Mannose-6-Phosphate Isomerase (MPI) ELISA Kit | MPI elisa kit

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CATALOG #
AAA331719

REACTIVITY
Human

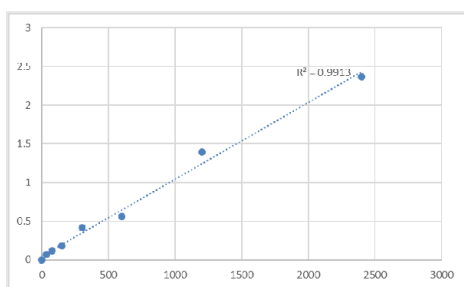
PRODUCT SYNONYMS

Mannose-6-Phosphate Isomerase (MPI); Human Mannose-6-Phosphate Isomerase (MPI) ELISA Kit; MPI; FLJ39201; PMI; PMI1; mannose-6-phosphate isomerase; phosphomannose isomerase 1; MPI elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Mannose-6-phosphate isomerase (MPI) ELISA Kit has high sensitivity and excellent specificity for detection of Human MPI. No significant cross-reactivity or interference between Human MPI and analogues was observed.
Sequence Length	423
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Mannose-6-phosphate isomerase (MPI) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for MPI elisa kit	Description: This Human Mannose-6-phosphate isomerase (MPI) ELISA Kit employs a two-site sandwich ELISA to quantitate MPI in samples. An antibody specific for MPI has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any MPI present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MPI is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of MPI bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Phosphomannose isomerase catalyzes the interconversion of fructose-6-phosphate and mannose-6-phosphate and plays a critical role in maintaining the supply of D-mannose derivatives, which are required for most glycosylation reactions. Mutations in the MPI gene were found in patients with carbohydrate-deficient glycoprotein syndrome, type Ib. Alternative splicing results in multiple transcript variants.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	7159280
NCBI GeneID	4351
UniProt Accession #	P34949
NCBI Official Full Name	mannose phosphate isomerase
NCBI Official Synonym Full Names	mannose phosphate isomerase
NCBI Official Symbol	MPI
NCBI Official Synonym Symbols	PMI; PMI1; CDG1B
NCBI Protein Information	mannose-6-phosphate isomerase
UniProt Protein Name	Mannose-6-phosphate isomerase
UniProt Gene Name	MPI
UniProt Synonym Gene Names	PMI1; PMI
UniProt Entry Name	MPI_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.