

Human Protein Disulfide Isomerase ELISA Kit | PDI elisa kit

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CATALOG #
AAA84535

REACTIVITY
Human

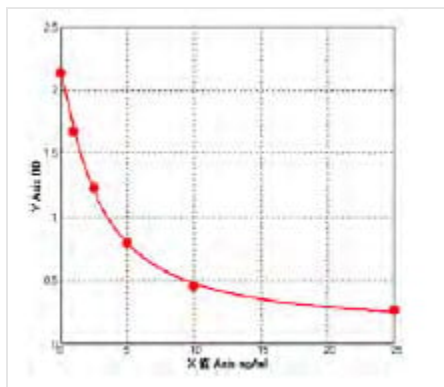
PRODUCT SYNONYMS

Protein Disulfide Isomerase; Human Protein Disulfide Isomerase ELISA Kit; PDI elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of PDISO. No significant cross-reactivity or interference between PDISO and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between PDISO 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	0.1 ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PDI elisa kit	Intended Uses: This PDISO ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human PDISO. This ELISA kit for research use only! Principle of the Assay: PDISO ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-PDISO antibody and an PDISO-HRP conjugate. The assay sample and buffer are incubated together with PDISO-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 PDISO concentration since PDISO from samples and PDISO-HRP conjugate compete for the anti-PDISO antibody binding site. Since the number of sites is limited, as more sites are occupied by PDISO from the sample, fewer sites are left to bind PDISO-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The PDISO concentration in each sample is interpolated from this standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	13540806
NCBI GeneID	5034
Molecular Weight	57,116 Da
NCBI Official Full Name	protein disulfide isomerase, partial
NCBI Official Synonym Full Names	prolyl 4-hydroxylase, beta polypeptide
NCBI Official Symbol	P4HB
NCBI Official Synonym Symbols	DSI; GIT; PDI; PHDB; PDIA1; PO4DB; PO4HB; PROHB; ERBA2L; P4Hbeta
NCBI Protein Information	protein disulfide-isomerase; p55; protocollagen hydroxylase; prolyl 4-hydroxylase subunit beta; collagen prolyl 4-hydroxylase beta; thyroid hormone-binding protein p55; glutathione-insulin transhydrogenase; cellular thyroid hormone-binding protein; protein disulfide isomerase-associated 1; protein disulfide isomerase/oxidoreductase; protein disulfide isomerase family A, member 1; procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), beta polypeptide
UniProt Protein Name	Protein disulfide-isomerase
UniProt Gene Name	P4HB
UniProt Synonym Gene Names	ERBA2L; PDI; PDIA1; PO4DB; PDI
UniProt Entry Name	PDIA1_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.