

Human Prostaglandin Reductase 1 (PTGR1) ELISA Kit | PTGR1 elisa kit

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CATALOG #
AAA186308

REACTIVITY
Human

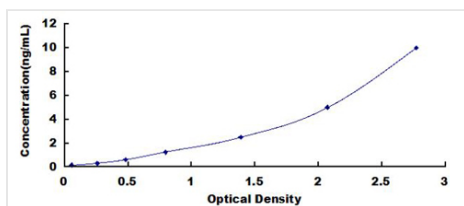
PRODUCT SYNONYMS

Prostaglandin Reductase 1 (PTGR1); Human Prostaglandin Reductase 1 (PTGR1) ELISA Kit; LTB4DH; ZADH3; NADP-dependent leukotriene B4 12-hydroxydehydrogenase; Zinc Binding Alcohol Dehydrogenase Domain Containing 3; 15-oxoprostaglandin 13-reductase; PTGR1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Prostaglandin Reductase 1 (PTGR1). No significant cross-reactivity or interference between Prostaglandin Reductase 1 (PTGR1) and analogues was observed.
Sequence Length	329
Assay Type	Double-antibody Sandwich
Samples	Tissue Homogenates, Cell Lysates and Other Biological Fluids
Detection Range	0.156-10ng/mL
Sensitivity	< 0.054ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Prostaglandin Reductase 1 (PTGR1) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Prostaglandin Reductase 1 (PTGR1) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PTGR1 elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Prostaglandin Reductase 1 (PTGR1). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Prostaglandin Reductase 1 (PTGR1). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Prostaglandin Reductase 1 (PTGR1), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Prostaglandin Reductase 1 (PTGR1) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	290543581
NCBI GeneID	100135572
NCBI Accession #	NP_001166451.1
NCBI GenBank Nucleotide #	NM_001172980.1
UniProt Accession #	Q9EQZ5
Molecular Weight	35,730 Da
NCBI Official Full Name	prostaglandin reductase 1
NCBI Official Symbol	Ptgr1
NCBI Official Synonym Symbols	Ltb4dh
NCBI Protein Information	prostaglandin reductase 1
UniProt Protein Name	Prostaglandin reductase 1
UniProt Gene Name	Ptgr1
UniProt Synonym Gene Names	Ltb4dh; PRG-1; PGR; 12-HD; LTB4

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.