

Human PRODH (Proline dehydrogenase 1, mitochondrial) ELISA Kit | PRODH elisa kit

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CATALOG #
AAA277787

REACTIVITY
Human

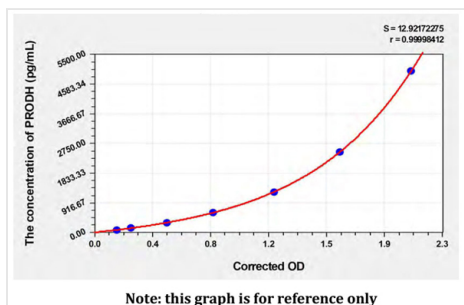
PRODUCT SYNONYMS

PRODH (Proline dehydrogenase 1; mitochondrial); Human PRODH (Proline dehydrogenase 1; mitochondrial) ELISA Kit; Proline oxidase 1; Proline oxidase 2; p53-induced gene 6 protein; PRODH elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Human PRODH. No significant cross-reactivity or interference between Human PRODH and analogues was observed.
Assay Type	Sandwich
Detection Range	78.13-5000 pg/mL
Sensitivity	34.1 pg/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay)? CV% < 8%. Three samples of known concentration were tested twenty times on 1 plate to assess intra-assay precision.
Inter-assay Precision	Inter-assay Precision (precision between assays)? CV% < 10%. Three samples of known concentration were tested in forty separate assays to assess inter-assay precision.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PRODH elisa kit

Principle of the Assay: 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 Human PRODH. Standards or samples are added to the appropriate microtiter plate wells then with a biotin-conjugated antibody specific to Human PRODH. 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 Human PRODH, 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 $\pm$ 10nm. The concentration of Human PRODH in the samples is then determined by comparing the OD of the samples to the standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	183227691
NCBI GeneID	5625
NCBI Accession #	NP_057419.3
NCBI GenBank Nucleotide #	NM_016335.3
UniProt Accession #	O43272; O14680; Q0P507; Q147W8; Q504W1; Q59FI8; Q6NV86; Q9UF13; A6NF53
Molecular Weight	59,231 Da
NCBI Official Full Name	proline dehydrogenase, mitochondrial
NCBI Official Synonym Full Names	proline dehydrogenase (oxidase) 1
NCBI Official Symbol	PRODH
NCBI Official Synonym Symbols	POX; PIG6; HSPOX2; PRODH1; PRODH2; TP53I6
NCBI Protein Information	proline dehydrogenase 1, mitochondrial; proline oxidase 2; p53-induced gene 6 protein; proline oxidase, mitochondrial; tumor protein p53 inducible protein 6
UniProt Protein Name	Proline dehydrogenase 1, mitochondrial
UniProt Gene Name	PRODH
UniProt Synonym Gene Names	PIG6; POX2
UniProt Entry Name	PROD_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.

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Online datasheet: <https://www.aaabiotech.com/human-elisa-kits/prodh-proline-dehydrogenase-1-mitochondrial/277787>