

Mouse 4-hydroxyphenylpyruvate dioxygenase (HPD) ELISA Kit | HPD elisa kit

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CATALOG #
AAA245774

REACTIVITY
Mouse

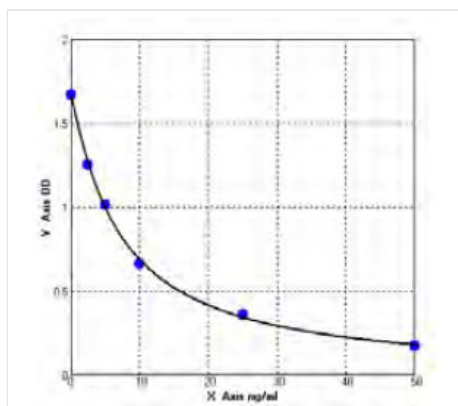
PRODUCT SYNONYMS

4-hydroxyphenylpyruvate dioxygenase (HPD); Mouse 4-hydroxyphenylpyruvate dioxygenase (HPD) ELISA Kit; HPD elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of HPD. No significant cross-reactivity or interference between HPD and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between HPD 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 HPD elisa kit	Intended Uses: This HPD ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Mouse HPD. This ELISA kit for research use only, not for therapeutic or test applications! Principle of the Assay: HPD ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-HPD antibody and an HPD-HRP conjugate. The assay sample and buffer are incubated together with HPD-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 HPD concentration since HPD from samples and HPD-HRP conjugate compete for the anti-HPD antibody binding site. Since the number of sites is limited, as more sites are occupied by HPD from the sample, fewer sites are left to bind HPD-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The HPD concentration in each sample is interpolated from this standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	3860238
NCBI GeneID	3242
Molecular Weight	40,497 Da
NCBI Official Full Name	4-hydroxyphenylpyruvate-dioxygenase
NCBI Official Synonym Full Names	4-hydroxyphenylpyruvate dioxygenase
NCBI Official Symbol	HPD
NCBI Official Synonym Symbols	PPD; 4HPPD; GLOD3; 4-HPPD; HPPDASE
NCBI Protein Information	4-hydroxyphenylpyruvate dioxygenase; glyoxalase domain containing 3; 4-hydroxyphenylpyruvic acid oxidase
UniProt Protein Name	4-hydroxyphenylpyruvate dioxygenase
UniProt Gene Name	HPD
UniProt Synonym Gene Names	PPD; 4HPPD; HPD; HPPDase
UniProt Entry Name	HPPD_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/mouse-elisa-kits/4-hydroxyphenylpyruvate-dioxygenase-hpd/245774>