

Human 4-Hydroxyphenylpyruvate Dioxygenase (HPD) ELISA Kit | HPD elisa kit

Human 4-Hydroxyphenylpyruvate Dioxygenase (HPD) Wide-range ELISA Kit

CATALOG # AAA189210	REACTIVITY Human	APPLICATIONS ELISA
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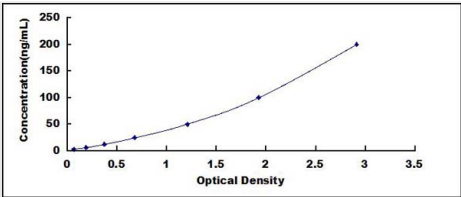
PRODUCT SYNONYMS

4-Hydroxyphenylpyruvate Dioxygenase (HPD); Human 4-Hydroxyphenylpyruvate Dioxygenase (HPD) Wide-range ELISA Kit; 4-Hydroxyphenylpyruvate Dioxygenase; PPD; 4-HPPD; 4HPPD; GLOD3; Glyoxalase Domain Containing 3; 4-hydroxyphenylpyruvic acid oxidase; HPD elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Wide-range 4-Hydroxyphenylpyruvate Dioxygenase (HPD). No significant cross-reactivity or interference between Wide-range 4-Hydroxyphenylpyruvate Dioxygenase (HPD) and analogues was observed.
Sequence Length	393
Assay Type	Double-antibody Sandwich
Samples	Serum, plasma, tissue homogenates and other biological fluids
Detection Range	3.12-200ng/mL
Sensitivity	The minimum detectable dose of this kit is typically less than 1.27ng/mL
Applicable Applications for HPD elisa kit	ELISA
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Wide-range 4-Hydroxyphenylpyruvate Dioxygenase (HPD) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Wide-range 4-Hydroxyphenylpyruvate Dioxygenase (HPD) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10% Inter-Assay: CV<12%
Test Principle	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 Wide-range 4-Hydroxyphenylpyruvate Dioxygenase (HPD). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Wide-range 4-Hydroxyphenylpyruvate Dioxygenase (HPD). 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 Wide-range 4-Hydroxyphenylpyruvate Dioxygenase (HPD), 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 Wide-range 4-Hydroxyphenylpyruvate Dioxygenase (HPD) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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)

NCBI AND UNIPROT INFORMATION

NCBI GI #	417144
NCBI GeneID	3242
UniProt Accession #	P32754
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
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/human-elisa-kits/4-hydroxyphenylpyruvate-dioxygenase-hpd/189210>