

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

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CATALOG #
AAA63742

REACTIVITY
Human

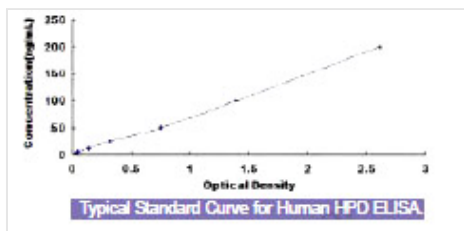
PRODUCT SYNONYMS

4-Hydroxyphenylpyruvate Dioxygenase (HPD); Human 4-Hydroxyphenylpyruvate Dioxygenase (HPD) ELISA Kit; 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 HPD. No significant cross-reactivity or interference between HPD and analogues was observed.
Sequence Length	354
Samples	Serum, plasma, tissue homogenates and other biological fluids.
Assay Type	Sandwich
Detection Range	3.125-200ng/mL
Sensitivity	1.21ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level HPD were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level HPD were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for HPD elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of HPD in human serum, plasma, tissue homogenates and other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to HPD. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to 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 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 HPD 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 #	285002264
NCBI GeneID	3242
NCBI Accession #	NP_001165464.1
NCBI GenBank Nucleotide #	NM_001171993.1
UniProt Accession #	P32754; Q13234; A8K461; B3KQ63
Molecular Weight	40,497 Da
NCBI Official Full Name	4-hydroxyphenylpyruvate dioxygenase isoform 2
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

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://stage.aaabiotech.com/human-elisa-kits/4-hydroxyphenylpyruvate-dioxygenase-hpd/63742>