

Human D2-Hydroxyglutarate Dehydrogenase (D2HGDH) ELISA Kit | D2HGDH elisa kit

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CATALOG #
AAA187499

REACTIVITY
Human

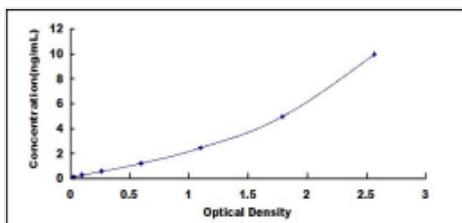
PRODUCT SYNONYMS

D2-Hydroxyglutarate Dehydrogenase (D2HGDH); Human D2-Hydroxyglutarate Dehydrogenase (D2HGDH) ELISA Kit; D2HGD; D2HGDH elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of D2-Hydroxyglutarate Dehydrogenase (D2HGDH). No significant cross-reactivity or interference between D2-Hydroxyglutarate Dehydrogenase (D2HGDH) and analogues was observed.
Sequence Length	387
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue Homogenates and Other Biological Fluids
Detection Range	0.156-10ng/mL
Sensitivity	< 0.065ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level D2-Hydroxyglutarate Dehydrogenase (D2HGDH) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level D2-Hydroxyglutarate Dehydrogenase (D2HGDH) 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 D2HGDH 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 D2-Hydroxyglutarate Dehydrogenase (D2HGDH). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to D2-Hydroxyglutarate Dehydrogenase (D2HGDH). 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 D2-Hydroxyglutarate Dehydrogenase (D2HGDH), 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 D2-Hydroxyglutarate Dehydrogenase (D2HGDH) 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 #	564730541
NCBI GeneID	728294
NCBI Accession #	NP_001274178.1
NCBI GenBank Nucleotide #	NM_001287249.1
UniProt Accession #	Q8N465; Q6IQ24; Q8N5Q8; B4E3L6; E7ENP2
Molecular Weight	34,173 Da
NCBI Official Full Name	D-2-hydroxyglutarate dehydrogenase, mitochondrial isoform 2
NCBI Official Synonym Full Names	D-2-hydroxyglutarate dehydrogenase
NCBI Official Symbol	D2HGDH
NCBI Official Synonym Symbols	D2HGD
NCBI Protein Information	D-2-hydroxyglutarate dehydrogenase, mitochondrial
UniProt Protein Name	D-2-hydroxyglutarate dehydrogenase, mitochondrial
UniProt Gene Name	D2HGDH
UniProt Synonym Gene Names	D2HGD

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/d2-hydroxyglutarate-dehydrogenase-d2hgdh/187499>