

Rat Dihydropyrimidine Dehydrogenase (DPYD) ELISA Kit | DPYD elisa kit

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CATALOG #
AAA68399

REACTIVITY
Rat

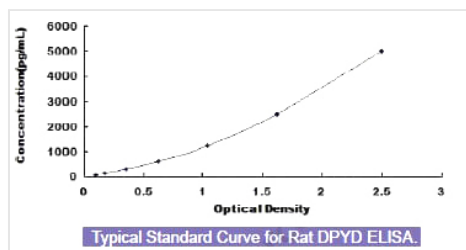
PRODUCT SYNONYMS

Dihydropyrimidine Dehydrogenase (DPYD); Rat Dihydropyrimidine Dehydrogenase (DPYD) ELISA Kit; DPD; DHPDHase; Dihydrothymine dehydrogenase; Dihydrouracil dehydrogenase; DPYD elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of DPYD. No significant cross-reactivity or interference between DPYD and analogues was observed.
Sequence Length	1025
Samples	Serum, plasma, tissue homogenates and other biological fluids
Assay Type	Quantitative Sandwich
Detection Range	78.12-5000pg/mL
Sensitivity	<30pg/mL.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level DPYD 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 DPYD were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for DPYD elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of DPYD in rat 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 DPYD. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to DPYD. 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 DPYD, 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 DPYD 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 #	13591940
NCBI GeneID	81656
NCBI Accession #	NP_112289.1
NCBI GenBank Nucleotide #	NM_031027.1
UniProt Accession #	O89000
Molecular Weight	111,468 Da
NCBI Official Full Name	dihydropyrimidine dehydrogenase
NCBI Official Synonym Full Names	dihydropyrimidine dehydrogenase
NCBI Official Symbol	Dpyd
NCBI Protein Information	dihydropyrimidine dehydrogenase [NADP(+)]
UniProt Protein Name	Dihydropyrimidine dehydrogenase [NADP(+)]
UniProt Gene Name	Dpyd
UniProt Synonym Gene Names	DPD; DHPDHase; DPD

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.