

Rat Dihydropyrimidine Dehydrogenase ELISA Kit | DPYD elisa kit

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CATALOG #
AAA82649

REACTIVITY
Rat

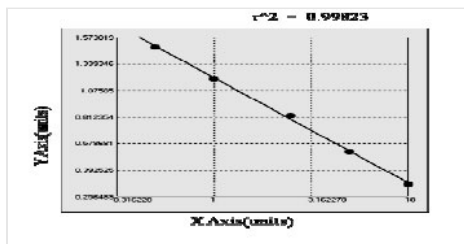
PRODUCT SYNONYMS

Dihydropyrimidine Dehydrogenase; Rat Dihydropyrimidine Dehydrogenase ELISA Kit; DPYD elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Detection Range	0.5-10ng/mL
Sensitivity	0.1ng/ml
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for DPYD elisa kit

Intended Uses: This DPD ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat DPD.

Principle of the Assay: DPD ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-DPD antibody and an DPD-HRP conjugate. The assay sample and buffer are incubated together with DPD-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 DPD concentration since DPD from samples and DPD-HRP conjugate compete for the anti-DPD antibody binding site. Since the number of sites is limited, as more sites are occupied by DPD from the sample, fewer sites are left to bind DPD-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The DPD concentration in each sample is interpolated from this standard curve.

Product Categories/Family for DPYD elisa kit

Signal Transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	693912
NCBI GeneID	1806
Molecular Weight	18,936 Da
NCBI Official Full Name	dihydropyrimidine dehydrogenase
NCBI Official Synonym Full Names	dihydropyrimidine dehydrogenase
NCBI Official Symbol	DPYD
NCBI Official Synonym Symbols	DHP; DPD; DHPDHASE
NCBI Protein Information	dihydropyrimidine dehydrogenase [NADP(+)]; dihydropyrimidine dehydrogenase [NADP(+)]; dihydrouracil dehydrogenase; dihydrothymine dehydrogenase
UniProt Protein Name	Dihydropyrimidine dehydrogenase [NADP(+)]
UniProt Gene Name	DPYD
UniProt Synonym Gene Names	DHPDHase; DPD
UniProt Entry Name	DPYD_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://stage.aaabiotech.com/dpyd-rat-elisa-kits/dihydropyrimidine-dehydrogenase/82649>