

Rat Cytochrome P450 2D6 (CYP2D6) ELISA Kit | CYP2D6 elisa kit

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CATALOG #
AAA244474

REACTIVITY
Rat

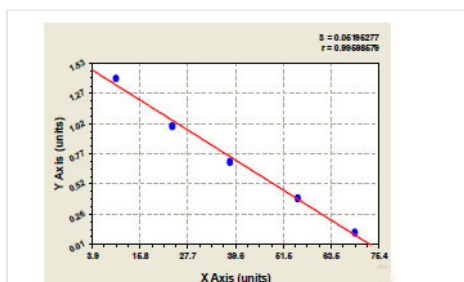
PRODUCT SYNONYMS

Cytochrome P450 2D6 (CYP2D6); Rat Cytochrome P450 2D6 (CYP2D6) ELISA Kit; CYP2D6 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Detection Range	2.5-50ng/mL
Sensitivity	0.1ng/ml
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



ADDITIONAL INFORMATION

Related Product Information for CYP2D6 elisa kit

Intended Uses: This CYP2D6 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat CYP2D6. This ELISA kit for research use only!

Principle of the Assay: CYP2D6 ELISA kit applies the competitive enzyme immunoassay technique utilizing a Polyclonal anti-CYP2D6 antibody and an CYP2D6-HRP conjugate. The assay sample and buffer are incubated together with CYP2D6-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 CYP2D6 concentration since CYP2D6 from samples and CYP2D6-HRP conjugate compete for the anti-CYP2D6 antibody binding site. Since the number of sites is limited, as more sites are occupied by CYP2D6 from the sample, fewer sites are left to bind CYP2D6-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The CYP2D6 concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	392513723
NCBI GeneID	1565
NCBI Accession #	NP_001020332.2
NCBI GenBank Nucleotide #	NM_001025161.2
Molecular Weight	50,061 Da
NCBI Official Full Name	cytochrome P450 2D6 isoform 2
NCBI Official Synonym Full Names	cytochrome P450, family 2, subfamily D, polypeptide 6
NCBI Official Symbol	CYP2D6
NCBI Official Synonym Symbols	CPD6; CYP2D; CYP2DL1; CYP1ID6; P450C2D; P450DB1; CYP2D7AP; CYP2D7BP; CYP2D7P2; CYP2D8P2; P450-DB1
NCBI Protein Information	cytochrome P450 2D6; cytochrome P450-DB1; microsomal monooxygenase; xenobiotic monooxygenase; debrisoquine 4-hydroxylase; flavoprotein-linked monooxygenase; cytochrome P450, family 2, subfamily D, polypeptide 7 pseudogene 2; cytochrome P450, family 2, subfamily D, polypeptide 8 pseudogene 2; cytochrome P450, subfamily IID (debrisoquine, sparteine, etc., -metabolizing)-like 1; cytochrome P450, subfamily IID (debrisoquine, sparteine, etc., -metabolizing), polypeptide 6; cytochrome P450, subfamily II (debrisoquine, sparteine, etc., -metabolising), polypeptide 7 pseudogene 2; cytochrome P450, subfamily IID (debrisoquine, sparteine, etc., -metabolising), polypeptide 8 pseudogene 2
UniProt Protein Name	Cytochrome P450 2D6
UniProt Gene Name	CYP2D6
UniProt Synonym Gene Names	CYP2DL1
UniProt Entry Name	CP2D6_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/rat-elisa-kits/cytochrome-p450-2d6-cyp2d6/244474>