

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

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CATALOG #
AAA331977

REACTIVITY
Human

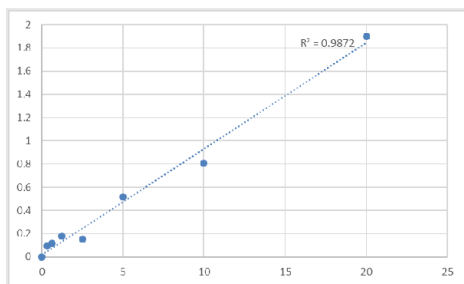
PRODUCT SYNONYMS

Cytochrome P450 2D6 (CYP2D6); Human Cytochrome P450 2D6 (CYP2D6) ELISA Kit; CYP2D6; RP4-669P10.2; CPD6; CYP2D; CYP2DL1; MGC120389; MGC120390; P450-DB1; P450C2D; P450DB1; cytochrome P450 2D6; cytochrome P450; subfamilyD (debrisoquine; sparteine; etc; -metabolizing); polyp; CYP2D6 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Cytochrome P450 2D6 (CYP2D6) ELISA Kit has high sensitivity and excellent specificity for detection of Human CYP2D6. No significant cross-reactivity or interference between Human CYP2D6 and analogues was observed.
Sequence Length	497
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Cytochrome P450 2D6 (CYP2D6) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for CYP2D6 elisa kit	Description: This Human Cytochrome P450 2D6 (CYP2D6) ELISA Kit employs a two-site sandwich ELISA to quantitate CYP2D6 in samples. An antibody specific for CYP2D6 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any CYP2D6 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for CYP2D6 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of CYP2D6 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Cytochrome P450 2D6 (CYP2D6), a member of the cytochrome P450 mixed-function oxidase system, is one of the most important enzymes involved in the metabolism of xenobiotics in the body. Whilst CYP2D6 is involved in the oxidation of a wide range of substrates of all the CYPs, there is considerable variability in its expression in the liver. The gene is located near two cytochrome P450 pseudogenes on chromosome 22q13.1. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. CYP2D6 activity was tested in "healthy infants receiving an oral dose (0.3 mg/kg) of dextromethorphan (DM) at 0.5, 1, 2, 4, 6, and 12 months of age. DM and its major metabolites were measured in urine. CYP2D6 genotype was determined by polymerase chain reaction-restriction fragment length polymorphism.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	392513721
NCBI GeneID	1565
NCBI Accession #	NP_000097.3
NCBI GenBank Nucleotide #	NP_000097.3
UniProt Accession #	P10635
NCBI Official Full Name	cytochrome P450 2D6 isoform 1
NCBI Official Synonym Full Names	cytochrome P450 family 2 subfamily D member 6
NCBI Official Symbol	CYP2D6
NCBI Official Synonym Symbols	CPD6; CYP2D; CYP2DL1; CYPIID6; P450C2D; P450DB1; CYP2D7AP; CYP2D7BP; CYP2D7P2; CYP2D8P2; P450-DB1
NCBI Protein Information	cytochrome P450 2D6
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.