

Human Cytochrome P450 2C19 ELISA Kit | CYP2C19 elisa kit

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CATALOG #
AAA102322

REACTIVITY
Human

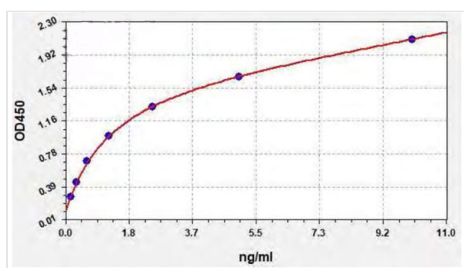
PRODUCT SYNONYMS

Cytochrome P450 2C19; Human Cytochrome P450 2C19 ELISA Kit; CYP2C19/Cytochrome P450-11A/CYP11C19/CYP11C17/1.14.13.49/ (S)-limonene 7-monooxygenase)/Mephenytoin 4-hydroxylase/Cytochrome P450-254C/1.14.13.80/ (R)-limonene 6-monooxygenase)/1.14.13.48/ (S)-limonene 6-monooxygenase); CYP2C19 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Specifically recognize CYP2C19, no obvious cross reaction with other analogues
Sequence Length	490
Assay Type	Sandwich
Samples	Cell lysates, tissue homogenates and other biological samples
Detection Range	0.156-10ng/ml
Sensitivity	0.094ng/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CYP2C19 elisa kit	Background: Cytochrome P450 2C19 (CYP2C19) is a drug-metabolizing enzyme involved in the metabolism of several clinically important drugs including the platelet aggregation inhibitor clopidogrel, the tricyclic antidepressants amitriptyline and nortriptyline, the selective serotonin reuptake inhibitors citalopram and sertraline, and some proton pump inhibitors including omeprazole and pantoprazole. CYP2C19 genotype information can be utilized to predict CYP2C19 metabolic phenotype, which can be used as an aid in determining a therapeutic strategy for drugs that are metabolized by CYP2C19. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti CYP2C19 antibody was pre-coated onto the 96-well plate. The biotin conjugated anti CYP2C19 antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with CYP2C19 conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of CYP2C19 in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4503219
NCBI GeneID	1557
NCBI Accession #	NP_000760.1
NCBI GenBank Nucleotide #	NM_000769.2
Molecular Weight	55,931 Da
NCBI Official Full Name	cytochrome P450 2C19
NCBI Official Synonym Full Names	cytochrome P450 family 2 subfamily C member 19
NCBI Official Symbol	CYP2C19
NCBI Official Synonym Symbols	CPCJ; CYP2C; P450C2C; CYPIIC17; CYPIIC19; P450IIC19
NCBI Protein Information	cytochrome P450 2C19
UniProt Protein Name	Cytochrome P450 2C19
UniProt Gene Name	CYP2C19
UniProt Entry Name	CP2CJ_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.