

Human Cytochrome P450 27B1 ELISA Kit | CYP27B1 elisa kit

Human Cytochrome P450 27B1 (CYP27B1) (Sandwich ELISA) ELISA Kit

CATALOG #
AAA189955

REACTIVITY
Human

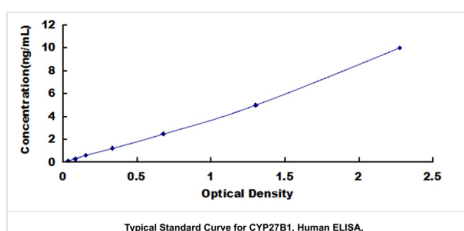
PRODUCT SYNONYMS

Cytochrome P450 27B1; Human Cytochrome P450 27B1 (CYP27B1) (Sandwich ELISA) ELISA Kit; VDD1; PDDR; CYP1; P450c1; 25-Hydroxyvitamin D3 1-Alpha-Hydroxylase; Cytochrome P450 Family 27 Subfamily B Polypeptide 1; Calcidiol 1-monooxygenase; VD3 1A hydroxylase; ELISA Kit for Cytochrome P450 27B1 (CYP27B1); CYP27B1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of CYP27B1. No significant cross-reactivity or interference between CYP27B1 and analogues was observed.
Assay Type	Quantitative Sandwich
Samples	Human tissue homogenates, cell lysates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	< 0.054ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level CYP27B1 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 CYP27B1 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	4 degree C for 1 month/ -20 degree C for long-term(within shelf life). Shelf life is one year

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CYP27B1 elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to CYP27B1. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to CYP27B1. 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 CYP27B1, 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 CYP27B1 in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of CYP27B1 in human tissue homogenates, cell lysates and other biological fluids.
Product Categories/Family for CYP27B1 elisa kit	Metabolic pathway

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503213
NCBI GeneID	1594
NCBI Accession #	NP_000776.1
NCBI GenBank Nucleotide #	NM_000785.3
UniProt Accession #	O15528; Q548T3; B2RC61
Molecular Weight	56,504 Da
NCBI Official Full Name	25-hydroxyvitamin D-1 alpha hydroxylase, mitochondrial
NCBI Official Synonym Full Names	cytochrome P450 family 27 subfamily B member 1
NCBI Official Symbol	CYP27B1
NCBI Official Synonym Symbols	VDR; CP2B; CYP1; PDDR; VDD1; VDDR; VDDRI; CYP27B; P450c1; CYP1alpha
NCBI Protein Information	25-hydroxyvitamin D-1 alpha hydroxylase, mitochondrial
UniProt Protein Name	25-hydroxyvitamin D-1 alpha hydroxylase, mitochondrial
UniProt Gene Name	CYP27B1
UniProt Synonym Gene Names	CYP1ALPHA; CYP27B; VD3 1A hydroxylase
UniProt Entry Name	CP27B_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.