

Rat 25-hydroxyvitamin D-1 alpha hydroxylase, mitochondrial ELISA Kit | Cyp27b1 elisa kit

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CATALOG #
AAA102426

REACTIVITY
Rat

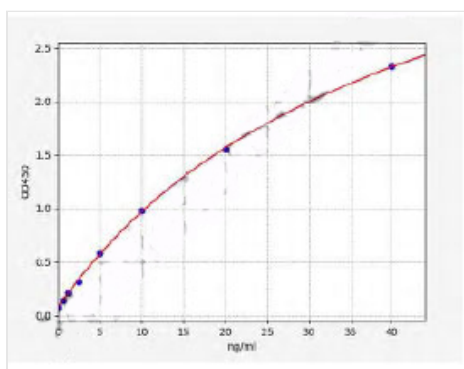
PRODUCT SYNONYMS

25-hydroxyvitamin D-1 alpha hydroxylase; mitochondrial; Rat 25-hydroxyvitamin D-1 alpha hydroxylase; mitochondrial ELISA Kit; Cyp27b1/Cytochrome P450VD1-alpha/Cytochrome P450C1 alpha/Cytochrome P450 subfamily XXVIIIB polypeptide 1/Calcidiol 1-monooxygenase/Cytochrome p450 27B1/25-OHD-1 alpha-hydroxylase/25-hydroxyvitamin D (3) 1-alpha-hydroxylase (VD3 1A hydroxylase; Cyp27b1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
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.
Sequence Length	508
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	0.625-40ng/ml
Sensitivity	0.375ng/ml
Intra-assay Precision	CV<8%
Inter-assay Precision	CV<10%
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 Cyp27b1 elisa kit	Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Capture antibody was pre-coated onto 96-well plates. And the biotin conjugated antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the target amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of target can be calculated.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4503213
NCBI GeneID	1594
NCBI Accession #	NP_000776.1
NCBI GenBank Nucleotide #	NM_000785.3
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.