

General VD3 ELISA Kit | VD3 elisa kit

VD3 (Vitamin D3) ELISA Kit

CATALOG #
AAA163745

REACTIVITY
General

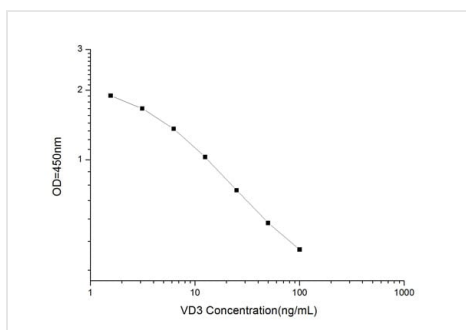
PRODUCT SYNONYMS

VD3; VD3 (Vitamin D3) ELISA Kit; VD3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	General
Specificity	This kit recognizes VD3 in samples. No significant cross-reactivity or interference between VD3 and analogues was observed.
Sequence Length	501
Samples	Serum, plasma and other biological fluids
Assay Type	Quantitative Competitive
Detection Range	1.56-100ng/mL
Sensitivity	0.94ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, mid range and high level VD3 were tested 20 times on one plate, respectively.
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, mid range and high level VD3 were tested on 3 different plates, 20 replicates in each plate.
Preparation and Storage	Store at 4 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for VD3 elisa kit	Intended Uses: This ELISA kit applies to the in vitro quantitative determination of VD3 concentrations in serum, plasma and other biological fluids. Principle of the Assay: This ELISA kit uses the Competitive-ELISA principle. The micro ELISA plate provided in this kit has been pre-coated with VD3. During the reaction, VD3 in the sample or standard competes with a fixed amount of VD3 on the solid phase supporter for sites on the Biotinylated Detection Ab specific to VD3. Excess conjugate and unbound sample or standard are washed from the plate, and Avidin conjugated to Horseradish Peroxidase (HRP) are added to each microplate well and incubated. Then a TMB substrate solution is added to each well. The enzyme-substrate reaction is terminated by the addition of stop solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The concentration of VD3 in the samples is then determined by comparing the OD of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	2588995
NCBI GeneID	114700
UniProt Accession #	O35132; O35076
Molecular Weight	55,369 Da
NCBI Official Full Name	VD3 1a hydroxylase
NCBI Official Synonym Full Names	cytochrome P450, family 27, subfamily b, polypeptide 1
NCBI Official Symbol	Cyp27b1
NCBI Official Synonym Symbols	Cyp40
NCBI Protein Information	25-hydroxyvitamin D-1 alpha hydroxylase, mitochondrial; 25-OHD-1 alpha-hydroxylase; 25-hydroxyvitamin D(3) 1-alpha-hydroxylase; P450C1 alpha; P450VD1-alpha; VD3 1A hydroxylase; calcidiol 1-monooxygenase; cytochrome P450 40 (25-hydroxyvitamin D3 1 alpha-hydroxylase); cytochrome P450 subfamily XXVIIIB (25-hydroxyvitamin D-1-alpha-hydroxylase) polypeptide 1; cytochrome P450 subfamily XXVIIIB polypeptide 1; cytochrome P450, 40 (25-hydroxyvitamin D3 1 alpha-hydroxylase); cytochrome P450, subfamily 27b, polypeptide 1; cytochrome P450C1 alpha; cytochrome P450VD1-alpha; cytochrome p450 27B1
UniProt Protein Name	25-hydroxyvitamin D-1 alpha hydroxylase, mitochondrial
UniProt Gene Name	Cyp27b1
UniProt Synonym Gene Names	Cyp27b; VD3 1A hydroxylase
UniProt Entry Name	CP27B_RAT

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.