

General 1,25-Dihydroxyvitamin D3 (DHVD3) ELISA Kit | DHVD3 elisa kit

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CATALOG #
AAA129670

REACTIVITY
General

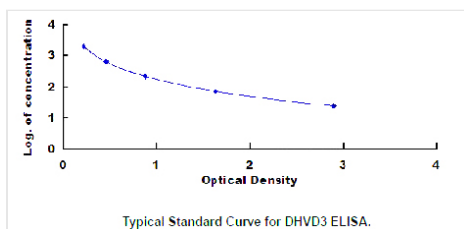
PRODUCT SYNONYMS

1; 25-Dihydroxyvitamin D3 (DHVD3); General 1; 25-Dihydroxyvitamin D3 (DHVD3) ELISA Kit; DH-VD3; Calcitriol; Rocaltrol; Calcijex; 25-(OH)2D3; 25-Dihydroxycholecalciferol; 25-Dihydroxy Vitamin D3; DHVD3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	General
Specificity	This assay has high sensitivity and excellent specificity for detection of DHVD3. Cross-reactivity or interference between DHVD3 and analogues was observed.
Sequence Length	513
Assay Type	Competitive Inhibition
Samples	Serum, Plasma and other biological fluids
Detection Range	24.69-2,000pg/mL
Sensitivity	9.92pg/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level DHVD3 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 DHVD3 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for DHVD3 elisa kit	Principle of the Assay: This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to DHVD3 has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled DHVD3 analogues and unlabeled antigen (Standards or samples) with the pre-coated antibody. After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of DHVD3 in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of DHVD3 in the sample.
Product Categories/Family for DHVD3 elisa kit	Metabolic pathway; Bone metabolism

NCBI AND UNIPROT INFORMATION

NCBI GI #	306704
NCBI GeneID	1591
Molecular Weight	43,051 Da
NCBI Official Full Name	1,25-dihydroxyvitamin D3 24-hydroxylase
NCBI Official Synonym Full Names	cytochrome P450, family 24, subfamily A, polypeptide 1
NCBI Official Symbol	CYP24A1
NCBI Official Synonym Symbols	CP24; HCAI; CYP24; P450-CC24
NCBI Protein Information	1,25-dihydroxyvitamin D(3) 24-hydroxylase, mitochondrial
UniProt Protein Name	1,25-dihydroxyvitamin D(3) 24-hydroxylase, mitochondrial
UniProt Gene Name	CYP24A1
UniProt Synonym Gene Names	CYP24; 24-OHase; Vitamin D(3) 24-hydroxylase
UniProt Entry Name	CP24A_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.

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Online datasheet: <https://stage.aaabiotech.com/general-elisa-kits/125-dihydroxyvitamin-d3-dhvd3/129670>