

Canine 25-hydroxy vitamin D3 (25 HVD3) ELISA Kit

Catalog No: #EK7574



Package Size: #EK7574-1 48T #EK7574-2 96T

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Description

Product Name	Canine 25-hydroxy vitamin D3 (25 HVD3) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Canine (Canis familiaris; Dog)
Storage	<p>The stability of ELISA 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.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range:3.12-200 ng/mL

Sensitivity:1.04 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate 25 HVD3 in samples. An antibody specific for 25 HVD3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any25 HVD3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for 25 HVD3 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of 25 HVD3 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Calcifediol is a prehormone which is produced by hydroxylation of vitamin D3 (cholecalciferol) in the liver. Calcidiol is then converted in the kidneys (by the enzyme 25(OH)D-1 α -hydroxylase) into calcitriol (1,25-(OH)2D3), a secosteroid hormone that is the active form of vitamin D. It can also be converted into 24-hydroxycalcidiol in the kidneys via 24-hydroxylation. In medicine, blood concentration of calcidiol is considered the best indicator of vitamin D status. It is the most sensitive measure, though experts have called for improved standardization and reproducibility across different laboratories. The normal range varies widely depending on several factors, including age and geographic location. A broad reference range of 20C150 nmol/L has been suggested, while several studies have defined levels below 80 nmol/L as indicative of vitamin D deficiency.

Note: This product is for in vitro research use only