

CPA915Ge21 2.5mg
OVA Conjugated 25-Hydroxyvitamin D3 (HVD3)
Organism Species: General
Instruction manual

FOR IN VITRO USE AND RESEARCH USE ONLY
NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

9th Edition (Revised in Jul, 2013)

[PROPERTIES]

Antigen: HVD3-OVA

Chemical Formula: $C_{27}H_{44}O_2$

Mol. Mass: 400.6g/mol

Purity: >95%

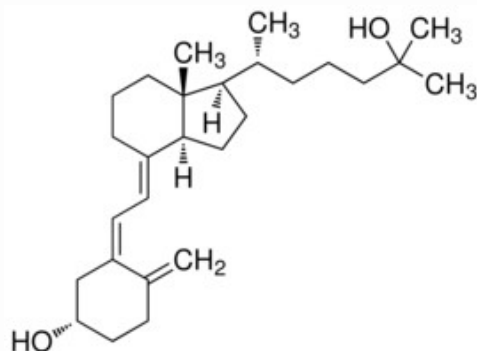
Endotoxin Level: <1.0EU per 1 μ g (determined by the LAL method).

Formulation: Supplied as lyophilized form in PBS.

Applications: SDS-PAGE; WB; ELISA; IP.

(May be suitable for use in other assays to be determined by the end user.)

Structural Formula:



[USAGE]

Reconstitute in sterile ddH₂O.

[STORAGE AND STABILITY]

Storage: Avoid repeated freeze/thaw cycles.

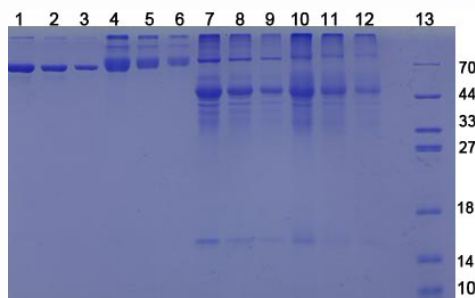
Store at 2-8°C for one month.

Aliquot and store at -80°C for 12 months.

Stability Test: The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.

[PHYSICAL DESCRIPTION]

1. 4μg BSA_κ
2. 2μg BSA_κ
3. 1μg BSA_κ
4. 8μg HVD3-BSA_κ
5. 4μg HVD3-BSA_κ
6. 2μg HVD3-BSA_κ
7. 4μg OVA_κ
8. 2μg OVA_κ
9. 1μg OVA_κ
10. 4μg HVD3-OVA_κ
11. 2μg HVD3-OVA_κ
12. 1μg HVD3-OVA_κ
13. Marker_κ



From the picture of PAGE, we can see that, there is little differences between carrier protein and the conjugated product which is a little diffusion. Because Mol. Mass of molecular is too small that it can be almost ignored comparing to carrier protein. At the same time, one carrier protein can conjugate with different amounts of molecular, so it ends with diffusion phenomenon. All above show that, small molecule DHEA coupled with carrier protein successfully.

CPA915Ge11 2.5mg
BSA Conjugated 25-Hydroxyvitamin D3 (HVD3)
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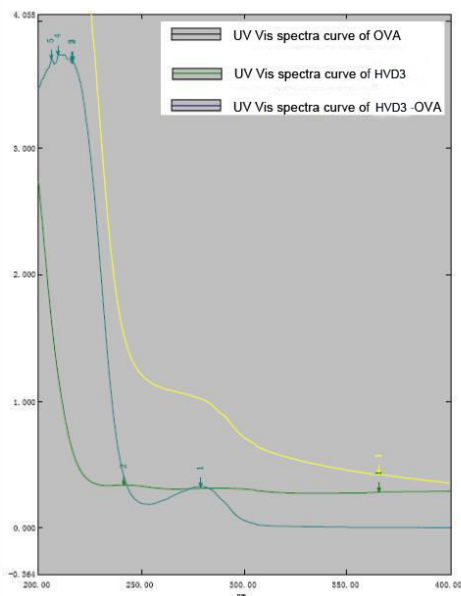


Figure A

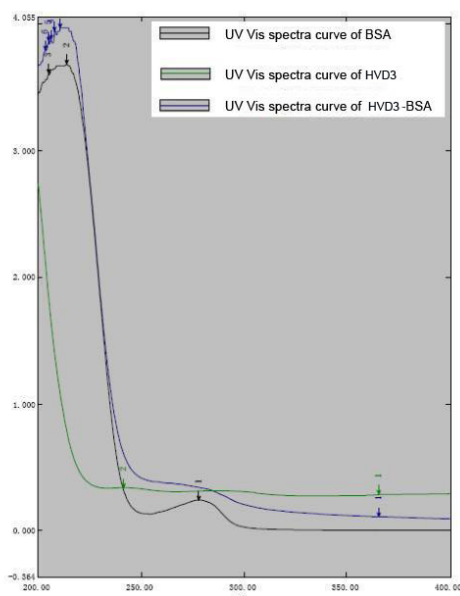


Figure B

Figure A: The picture clearly shows that UV Vis spectra of DHEA-OVA has an obvious change in 250-280nm compared to UV Vis spectra of OVA and DHEA, which illustrates the structure of conjugated product has great changes, and it means small molecular compound DHEA coupled with carrier protein successfully.

Figure B: The picture clearly shows that UV Vis spectra of DHEA-BSA has an obvious change in 250-280nm compared to UV Vis spectra of BSA and DHEA, which illustrates the structure of conjugated product has great changes, and it means small molecular compound DHEA coupled with carrier protein successfully.