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## Product Datasheet

### Human Vitamin D Receptor protein, His tag, Unconjugated GTX00163-PRO

Article Name	Human Vitamin D Receptor protein, His tag, Unconjugated
Biozol Catalog Number	GTX00163-PRO
Supplier Catalog Number	GTX00163-pro
Alternative Catalog Number	GTX00163-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Human
Conjugation	Unconjugated
NCBI	<a href="#">7421</a>
UniProt	<a href="#">P11473</a>
Buffer	Reconstitute with 100mM NaHCO3 and 500mM NaCl (pH8.3) to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 100mM NaHCO3 (pH8.3), 500mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose, ProClin 300.
Expression System	E. coli
Form	Lyophilized powder
Sequence	N-terminal His-Tag, Met272~Ser427 (NP_000367.1)

## Application Notes

Vitamin D Receptor (VDR) is the nuclear hormone receptor for vitamin D3. The receptor belongs to the family of trans-acting transcriptional regulatory factors and shows sequence similarity to the steroid and thyroid hormone receptors. It mediates the action of vitamin D3 by controlling the expression of hormone sensitive genes. Besides, E1A binding protein p300 (EP300) has been identified as an interactor of VDR, thus a binding ELISA assay was conducted to detect the interaction of recombinant human VDR and recombinant human EP300. Briefly, VDR were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100  $\mu$ l were then transferred to EP300-coated microtiter wells and incubated for 2h at 37C. Wells were washed with PBST and incubated for 1h with anti-VDR pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37C. Finally, add 50  $\mu$ l stop solution to the wells and read at 450nm immediately. The binding activity of VDR and EP300 was in a dose dependent manner.