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## Product Datasheet

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

|                          |                                                                                                                                                                                                                           |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Artikelname              | Human Vitamin D Receptor protein, His tag, Unconjugated                                                                                                                                                                   |
| Artikelnummer            | GTX00163-PRO                                                                                                                                                                                                              |
| Hersteller Artikelnummer | GTX00163-pro                                                                                                                                                                                                              |
| Alternativnummer         | GTX00163-PRO-10                                                                                                                                                                                                           |
| Hersteller               | GeneTex                                                                                                                                                                                                                   |
| Kategorie                | Proteine/Peptide                                                                                                                                                                                                          |
| Applikation              | FA                                                                                                                                                                                                                        |
| Spezies Reaktivität      | Human                                                                                                                                                                                                                     |
| Konjugation              | Unconjugated                                                                                                                                                                                                              |
| NCBI                     | <a href="#">7421</a>                                                                                                                                                                                                      |
| UniProt                  | <a href="#">P11473</a>                                                                                                                                                                                                    |
| Puffer                   | Reconstitute with 100mM NaHCO <sub>3</sub> and 500mM NaCl (pH8.3) to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 100mM NaHCO <sub>3</sub> (pH8.3), 500mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose, ProClin 300. |
| Expression System        | E. coli                                                                                                                                                                                                                   |
| Formulierung             | Lyophilized powder                                                                                                                                                                                                        |
| Sequenz                  | N-terminal His-Tag, Met272~Ser427 (NP_000367.1)                                                                                                                                                                           |

Anwendungsbeschreibung

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 µl 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 µl stop solution to the wells and read at 450nm immediately. The binding activity of of VDR and EP300 was in a dose dependent manner.