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## Product Datasheet

### Human FGF23 protein, His tag, Unconjugated GTX00257-PRO

|                          |                                                                                                                                                                             |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Artikelname              | Human FGF23 protein, His tag, Unconjugated                                                                                                                                  |
| Artikelnummer            | GTX00257-PRO                                                                                                                                                                |
| Hersteller Artikelnummer | GTX00257-pro                                                                                                                                                                |
| Alternativnummer         | GTX00257-PRO-10                                                                                                                                                             |
| Hersteller               | GeneTex                                                                                                                                                                     |
| Kategorie                | Proteine/Peptide                                                                                                                                                            |
| Applikation              | FA                                                                                                                                                                          |
| Spezies Reaktivität      | Human                                                                                                                                                                       |
| Konjugation              | Unconjugated                                                                                                                                                                |
| NCBI                     | <a href="#">8074</a>                                                                                                                                                        |
| UniProt                  | <a href="#">Q9GZV9</a>                                                                                                                                                      |
| Puffer                   | Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose, ProClin 300. |
| Expression System        | E. coli                                                                                                                                                                     |
| Formulierung             | Lyophilized powder                                                                                                                                                          |
| Sequenz                  | N-terminal His-Tag, Asp79~Arg160 (NP_065689.1)                                                                                                                              |

Anwendungsbeschreibung

Fibroblast growth factor 23 or FGF23 is a member of the fibroblast growth factor (FGF) family which is responsible for phosphate and vitamin D metabolism. The main function of FGF23 seems to be regulation of phosphate concentration in plasma. FGF23 decreases the reabsorption and increases excretion of phosphate and suppress 1-alpha-hydroxylase, reducing its ability to activate vitamin D and subsequently impairing calcium absorption. Besides, Fibroblast Growth Factor Receptor 2 (FGFR2) has been identified as an interactor of FGF23, thus a binding ELISA assay was conducted to detect the interaction of recombinant human FGF23 and recombinant human FGFR2. Briefly, FGF23 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to FGFR2-coated microtiter wells and incubated for 2h at 37C. Wells were washed with PBST and incubated for 1h with anti-FGF23 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 FGF23 and FGFR2 was in a dose dependent manner.