

# Human FGF 23 Recombinant Protein



RPPB0250

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## Product Information    Protein Information

**Product SKU:**

RPPB0250

**Accession:**

Q9GZV9

**Host:**

Escherichia Coli.

**Protein description:**

Fibroblast Growth Factor-23 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain expressed with a -6xHis tag containing a total of 257 amino acids (251 a.a. FGF23+ 6 a.a. His tag) and having a molecular mass of 28629.5 Dalton. The FGF-23 is and purified by chromatographic techniques.

**Appearance:**

Sterile Filtered white lyophilized powder.

**Synonyms:**

Tumor-derived hypophosphatemia-inducing factor, HYPF, ADHR, HPDR2, PHPTC, FGF23, FGF-23, Fibroblast Growth Factor-23.

**Formulation:**

The protein (0.5mg/ml) was lyophilized from 25mM Tris pH7.5 and 0.6M NaCl solution.

**Purity:**

Greater than 90.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

**Solubility:**

It is recommended to reconstitute the lyophilized Fibroblast Growth Factor-23 in sterile 18MΩ-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

**Stability:**

Lyophilized Fibroblast Growth Factor 23 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution FGF-23 should be stored at 4°C between 2-7 days and for future use below -18°C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

**Amino Acid Sequence:**

MLGARLRLWVCALCSVCSMSVLRAYPNASPLLGSSWGGLIHLYTATARNSYHLQIHKNGHVVDGAPHQTIYSALMI  
RSEDAGFVVITGVMSRRYL CMDFRGNIFGSHYFDPENCRFQHQTLENGYDVYHSPQYHFLVSLGRAKRAFLPGMN  
PPPYSQFLSRRNEIPLIHFNTPIPRRHTRS AEDDSERDPLNVLKPRARMTPAPASCSQELPSAEDNSPMASDPLGVVR  
GGRVNTHAGGTGPEGCRPFAKFIHHHHHH.

**Biological Activity:**

Treatment with hrFGF23 has been shown to induce FGFR mediated Erk phosphorylation, reduce plasma PTH levels in rats and to reduce blood phosphate levels.