

Human FGF23 Recombinant Protein



RPPB0249

Product Information Protein Information

Product SKU:

RPPB0249

Accession:

Q9GZV9

Host:

Escherichia Coli.

Protein description:

Fibroblast Growth Factor-23 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing a total of 228 amino acids and having a molecular mass of 22.5kDa. 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 FGF-23 protein (0.5mg/ml) was lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.

Purity:

Greater than 95.0% as determined by SDS-PAGE.

Solubility:

It is recommended to reconstitute the lyophilized FGF-23 in sterile 18M-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability:

Lyophilized FGF-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:

MYPNASPLLG SSWGGLIHL Y TATARN SYHL QIHKNGHVDG APHQTIYSAL MIRSEDAGFV VITGVMSRRY
LCMDFRGNIF GSHYFDPENC RFQHQTLENG YDVYHSPQYH FLVSLGRAKR AFLPGMNPPP YSQFLSRNE
IPLIHFNTP I PRRHTRSAED DSERDPLNVL KPRARMTAP ASCSQELPSA EDNSPMASDP LGVVRGGRVN
THAGGTGPEG CRPFAKFI.

Biological Activity:

The biological activity of FGF-23 was measured in a cell proliferation assay using NIH/3T3 mouse embryonic fibroblasts. The ED50 for this effect is typically 0.05-0.5µg/ml in the presence of 5µg/ml of Recombinant Mouse Klotho and 10 µg/ml of HPR.