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32-1200: FGF 23 Recombinant Protein

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

Description

Source: Escherichia Coli. 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. FGF-23 is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities and are involved in a variety of biological processes including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. FGF-23 inhibits renal tubular phosphate transport. The FGF-23 gene was identified by its mutations associated with autosomal dominant hypophosphatemic rickets (ADHR), an inherited phosphate wasting disorder. Abnormally high level expression of FGF-23 was found in oncogenic hypophosphatemic osteomalacia (OHO), a phenotypically similar disease caused by abnormal phosphate metabolism. FGF-23 mutations have also been shown to cause familial tumoral calcinosis with hyperphosphatemia.

Product Info

Amount: 20 μg

Purification: Greater than 95.0% as determined by SDS-PAGE.

The FGF-23 protein (0.5mg/ml) was lyophilized from a 0.2µm filtered concentrated solution in Content:

PBS, pH 7.4.

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 Storage condition:

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: MYPNASPLLG SSWGGLIHLY TATARNSYHL QIHKNGHVDG APHQTIYSAL MIRSEDAGFV VITGVMSRRY

LCMDFRGNIF GSHYFDPENC RFQHQTLENG YDVYHSPQYH FLVSLGRAKR AFLPGMNPPP YSQFLSRRNE IPLIHFNTPI PRRHTRSAED DSERDPLNVL KPRARMTPAP ASCSQELPSA EDNSPMASDP LGVVRGGRVN

THAGGTGPEG CRPFAKFI.

Application Note

It is recommended to reconstitute the lyophilized FGF-23 in sterile 18M-cm H2O not less than 100Ã□Âμg/ml, which can then be further diluted to other aqueous solutions. 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 0.05-0.5̸µg/ml in the presence of 5̸µg/ml of Recombinant Mouse Klotho and 10 Ã∏µg/ml of heparin.

