Product Data Sheet

Product Name:	FGF23 Human
Cat. No.:	GP20253
Batch No.:	1

Product Data

Purity	>98%	Source	Escherichia Coli.
Phycical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Tumor-derived hypophosphatemia-inducing factor; HYPF; ADHR; HPDR2; PHPTC; FGF23; FGF-23; Fibroblast Growth Factor-23.		
Amino Acid Sequence	MYPNASPLLG SSWGGLIHLY TATARNSYHL QIHKNGHVDG APHQTIYSAL MIRSEDAGFV VITGVMSRRY LCMDFRGNIF GSHYFDPENC RFQHQTLENG YDVYHSPQYH FLVSLGRAKR AFLPGMNPPP YSQFLSRRNE IPLIHFNTPI PRRHTRSAED DSERDPLNVL KPRARMTPAP ASCSQELPSA EDNSPMASDP LGVVRGGRVN THAGGTGPEG CRPFAKFI.		
Solubility	It is recommended to reconstitute the lyophilized FGF-23 in sterile 18M-cm H2O not less than 100g/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The FGF-23 protein (0.5mg/ml) was lyophilized from a 0.2m filtered concentrated solution in PBS, pH 7.4.		

Introduction

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-23gene 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.

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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 0.05-0.5 µg/ml in the presence of 5 µg/ml of Recombinant Mouse Klotho and 10 µg/ml of heparin.

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.

Background

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.

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