

Fibroblast Growth Factor-23 Active Protein | FGF 23 active protein

Recombinant Human Fibroblast Growth Factor-23 His Tag

CATALOG #
AAA38181

HOST
E Coli

PRODUCT SYNONYMS

Fibroblast Growth Factor-23; Recombinant Human Fibroblast Growth Factor-23 His Tag; FGF 23 Human; His; Fibroblast Growth Factor-23 Human Recombinant; His Tag; Tumor-derived hypophosphatemia-inducing factor; HYPF; ADHR; HPDR2; PHPTC; FGF23; FGF-23; FGF 23 His; FGF 23 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Form/Format	The protein (0.5mg/ml) was lyophilized from 25mM Tris pH7.5 and 0.6M NaCl solution. Sterile Filtered white lyophilized powder.
Sequence	MLGARLRLWV CALCSVCSMS VLRAYPNASP LLGSSWGGLI HLYTATARNs YHLQIHKNHG VDGAPHQTIY SALMIRSEDA GFVVITGVMS RRYLCMDFRG NIFGSHYFDP ENCRFQHQL ENGVDVYHSP QYHFLVSLGR AKRAFLPGMN PPPYSQFLSR RNEIPLIHFN TPIPRRHTRS AEDDSERDPL NVLKPRARMT PAPASCSQEL PSAEDNSPMA SDPLGVVRGG RVNTHAGGTG PEGCRPFAKF IHHHHHH
Sequence Length	251
Solubility	It is recommended to reconstitute the lyophilized Fibroblast Growth Factor-23 in sterile 18M Omega -cm H2O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
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.
Preparation and Storage	Lyophilized Fibroblast Growth Factor 23 although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution FGF-23 should be stored at 4 degree C between 2-7 days and for future use below -18 degree C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for FGF 23 active 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. 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. This gene was identified by its mutations associated with autosomal dominant hypophosphatemic rickets (ADHR), an inherited phosphate wasting disorder. Abnormally high level expression of FGF23 was found in oncogenic hypophosphatemic osteomalacia (OHO), a phenotypically similar disease caused by abnormal phosphate metabolism. Mutations FGF23 have also been shown to cause familial tumoral calcinosis with hyperphosphatemia.
Product Categories/Family for FGF 23 active protein	Cytokines and Growth Factors; Growth Factors; Fibroblast Growth Factor

NCBI AND UNIPROT INFORMATION

NCBI GI #	10190674
NCBI GeneID	8074
NCBI Accession #	NP_065689.1
NCBI GenBank Nucleotide #	NM_020638.2
UniProt Accession #	Q9GZV9; Q4V758
Molecular Weight	27,954 Da
NCBI Official Full Name	fibroblast growth factor 23
NCBI Official Synonym Full Names	fibroblast growth factor 23
NCBI Official Symbol	FGF23
NCBI Official Synonym Symbols	ADHR; FGFN; HYPF; HPDR2; PHPTC
NCBI Protein Information	fibroblast growth factor 23; phosphatonin; tumor-derived hypophosphatemia inducing factor
UniProt Protein Name	Fibroblast growth factor 23
UniProt Gene Name	FGF23
UniProt Synonym Gene Names	HYPF; FGF-23
UniProt Entry Name	FGF23_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-fgf-23-active-protein/fibroblast-growth-factor-23/38181>