



Fibroblast Growth Factor-23 C-Terminal, His Tag, human recombinant (rHuFGF23-N-His)

Catalog No: 97444
Lot No: XXXXX
Source: *E. coli*
Synonyms: Tumor-derived hypophosphatemia-inducing factor, HYPF, ADHR, HPDR2, PHPTC, FGF23, FGF-23, Fibroblast Growth Factor-23

Background

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.

Description

FGF-23 C-term protein is a 8.67 kDa protein containing 72 amino acids and an additional 9 amino acid His Tag at N-terminus.

Physical Appearance

Lyophilized

Formulation

FGF-23 C-term was filtered (0.4 µm) and lyophilized from 0.5 mg/ml supplied in 20 mM Tris and 50 mM NaCl, pH 7.5.

Solubility

It is recommended to add deionized water to prepare a working stock solution of approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it on cell culture.

Stability

Store lyophilized FGF 23 C-term at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted FGF 23 C-term can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C.

Purity

Greater than 90.0% as determined by densitometric image analysis.

Amino Acid Sequence

MKHHHHHHAS AEDDSERDPL NVLKPRARMT PAPASCSQEL PSAEDNSPMA SDPLGVVRGG RVNTHAGGTG PEGCRPFAKF I

Applications

WB

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Usage

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