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## Recombinant human FGF-23 protein

Catalog Number: ATGP3852

## **PRODUCT INFORMATION**

## **Expression system**

Baculovirus

#### **Domain**

25-251aa

#### UniProt No.

Q9GZV9

#### **NCBI Accession No.**

NP 065689

## **Alternative Names**

Fibroblast growth factor 23, FGF23, ADHR, FGFN, HFTC2, HPDR2, HYPF, PHPTC

#### **Additional Information**

N- terminal Sequence Analysis: Ser-Ala-Glu-Asp-Asp

## **PRODUCT SPECIFICATION**

#### **Molecular Weight**

26.4 kDa (236aa)ns)

#### Concentration

0.25mg/ml (determined by absorbance at 280nm)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 2mM DTT, 1mM EDTA, 10% glycerol

### **Purity**

> 90% by SDS-PAGE

## **Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

## **Application**

SDS-PAGE

## **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## **BACKGROUND**

## **Description**

FGF-23, also known as fibroblast growth factor 23, is a member of the FGF family which is responsible for



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phosphate and vitamin D metabolism. The main function of this protein seems to be regulation of phosphate concentration in plasma. It is secreted by osteocytes in response to elevated calcitriol and acts on the kidneys, where it decreases the expression of NPT2, a sodium-phosphate cotransporter in the proximal tubule. Thus, FGF-23 interaction with renal proximal tubular epithelium decreases the reabsorption and increases excretion of phosphate. This protein may also suppress 1-alpha-hydroxylase, reducing its ability to activate vitamin D and subsequently impairing calcium absorption. Following secretion this protein is inactivated by cleavage into a N-terminal fragment and a C-terminal fragment. The N-terminal sequence analysis is showing that a C-terminal fragment is detected. Recombinant human FGF-23, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## **Amino acid Sequence**

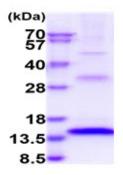
ADPYPNASPL LGSSWGGLIH LYTATARNSY HLQIHKNGHV DGAPHQTIYS ALMIRSEDAG FVVITGVMSR RYLCMDFRGN IFGSHYFDPE NCRFQHQTLE NGYDVYHSPQ YHFLVSLGRA KRAFLPGMNP PPYSQFLSRR NEIPLIHFNT PIPRRHTRSA EDDSERDPLN VLKPRARMTP APASCSQELP SAEDNSPMAS DPLGVVRGGR VNTHAGGTGP EGCRPFAKFI HHHHHH

#### **General References**

Shimada T., et al, (2001) Proc. Natl. Acad. Sci. U.S.A. 98:6500-6505. Mohammadi M., et al, (2005) Cytokine Growth Factor Rev. 16:107-137.

### **DATA**

#### **SDS-PAGE**



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

