

## Datasheet for ABIN2017821 **FGF23 Protein**

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### Overview

|                      |                            |
|----------------------|----------------------------|
| Quantity:            | 1 mg                       |
| Target:              | FGF23                      |
| Origin:              | Human                      |
| Source:              | Escherichia coli (E. coli) |
| Protein Type:        | Recombinant                |
| Biological Activity: | Active                     |

### Product Details

|                  |                                                                                                                                                                                                                                                                                                               |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sequence:        | YPNASPLLGS SWGGLIHLYT ATARNSYHLQ IHKNGHVDGA PHQTIYSALM IRSEDAGFVV<br>ITGVMSRRYL CMDFRGNIFG SHYFDPENCR FQHQTLENGY DVYHSPQYHF LVSLGRAKRA<br>FLPGMNPPPY SQFLSRRNEI PLIHFNTPIP RRHTRSAEDD SERDPLNVLK PRARMT PAPA<br>SCSQELPSAE DNSPMASDPL GVVRGGRVNT HAGGTGPEGC RPF AKFI                                          |
| Characteristics: | Fully biologically active when compared to standard. The ED50 as determined by thymidine uptake assay using FGF-receptors transfected BaF3 cells is less than 0.5 µg/mL, corresponding to a specific activity of $> 2.0 \times 10^3$ IU/mg in the presence of 0.3 µg/mL of rMuKlotho and 10 µg/mL of heparin. |
| Purity:          | > 95 % by SDS-PAGE and HPLC analyses.                                                                                                                                                                                                                                                                         |
| Sterility:       | 0.2 µm filtered                                                                                                                                                                                                                                                                                               |
| Endotoxin Level: | < 1 EU/µg of rHuFGF-23 as determined by LAL method.                                                                                                                                                                                                                                                           |

## Target Details

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|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | FGF23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Alternative Name: | Fibroblast Growth Factor-23 (FGF-23) ( <a href="#">FGF23 Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Background:       | <p>Fibroblast growth factor-23 (FGF-23) belongs to the large FGF family which has at least 23 members. All FGF family members are heparin binding growth factors with a core 120 amino acid (a.a.) FGF domain that allows for a common tertiary structure. FGFs are expressed during embryonic development and in restricted adult tissues. Four distinct but related classes of FGF receptors, FGF R1, 2, 3, and 4, exist. FGF-23 is produced by osteocytes and osteoblasts in response to high circulating phosphate levels, elevated parathyroid hormone, and circulatory volume loading. It functions as an endocrine phosphatonin by suppressing circulating phosphate levels. FGF-23 interaction with renal proximal tubular epithelium decreases the renal resorption of phosphate by down regulating phosphate transporters and by suppressing vitamin D production. It also decreases the intestinal absorption of phosphate.</p> <p>Synonyms: FGF-23 Human,</p> |
| Molecular Weight: | 25.3 kDa, a single non-glycosylated polypeptide chain containing 227 amino acids.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Pathways:         | <a href="#">RTK Signaling</a> , <a href="#">Fc-epsilon Receptor Signaling Pathway</a> , <a href="#">EGFR Signaling Pathway</a> , <a href="#">Neurotrophin Signaling Pathway</a> , <a href="#">Negative Regulation of Hormone Secretion</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## Application Details

|               |                       |
|---------------|-----------------------|
| Restrictions: | For Research Use only |
|---------------|-----------------------|

## Handling

|                  |                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Format:          | Lyophilized                                                                                                                                                                                                                                                                                                                                                                               |
| Reconstitution:  | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at $\leq -20$ °C. Further dilutions should be made in appropriate buffered solutions. |
| Buffer:          | Lyophilized from a 0.2 $\mu$ m filtered concentrated solution in PBS, pH 7.4.                                                                                                                                                                                                                                                                                                             |
| Handling Advice: | Avoid repeated freeze/thaw cycles.                                                                                                                                                                                                                                                                                                                                                        |
| Storage:         | 4 °C/-20 °C                                                                                                                                                                                                                                                                                                                                                                               |
| Storage Comment: | This lyophilized preparation is stable at 2-8 °C, but should be kept at -20 °C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 °C. For maximal stability, apportion the reconstituted preparation into working aliquots                                                                                            |

and store at -20 °C to -70 °C.