

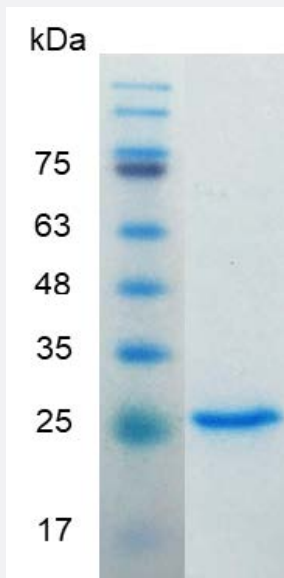
Bioactive

# FGF23 (Human) Recombinant Protein

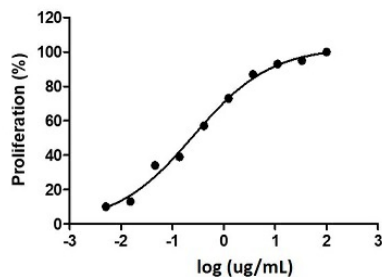
Catalog # P7852

Size 20 ug

## Applications



SDS-PAGE analysis of FGF23 (Human) Recombinant Protein.



## Result of activity analysis

Result of activity analysis

## Specification

### Product Description

Human FGF23 recombinant protein with polyhistidine tag at the C-terminus expressed in *Escherichia coli*.

### Sequence

MYPNASPLLGSWGGLIHLTYATARNSYHLQIHKNHVDGAPHQTIYSALMIRSEDAGFVVITGVMS  
RRYLCMDFRGNIFGSHYFDPENCRFQHQTLENGYDVYHSPQYHFLVSLGRAKRAFLPGMNPPPY  
SQFLSRNEIPLIHFNTPIPRRHTRSAEDDSERDPLNVLKPRARMTPAPASCSQELPSAEDNSPM  
ASDPLGVVRGGRVNTHAGGTGPEGCRPFAKFI with polyhistidine tag at the C-terminus.

|                         |                                                                                                                                                                               |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | Escherichia coli                                                                                                                                                              |
| Form                    | Lyophilized                                                                                                                                                                   |
| Preparation Method      | <i>Escherichia coli</i> expression system                                                                                                                                     |
| Purification            | Ni-NTA chromatography                                                                                                                                                         |
| Purity                  | > 98% as determined by SDS-PAGE.                                                                                                                                              |
| Endotoxin Level         | < 0.1 EU/ ug of protein by the LAL method.                                                                                                                                    |
| Activity                | ED <sub>50</sub> < 0.3 ug/mL, Measured by the induction of proliferation in BaF3 cells transfected with human F GFRIIIc.                                                      |
| Quality Control Testing | SDS-PAGE Stained with Coomassie Blue.<br>SDS-PAGE analysis of FGF23 (Human) Recombinant Protein.                                                                              |
| Recommend Usage         | Biological Activity<br>SDS-PAGE<br>The optimal working dilution should be determined by the end user.                                                                         |
| Storage Buffer          | Lyophilized from a solution containing 1X PBS, pH 8.0. Reconstitute the lyophilized powder in ddH <sub>2</sub> O to 100 ug/mL.                                                |
| Storage Instruction     | Lyophilized protein should be stored at -20°C. Protein aliquots should be stored at -20°C to -80°C. The product is stable for one year.<br>Avoid repeated freeze/thaw cycles. |
| Note                    | Result of activity analysis<br>Result of activity analysis                                                                                                                    |

## Applications

- Functional Study
- SDS-PAGE

## Gene Info — FGF23

|               |                          |
|---------------|--------------------------|
| Entrez GeneID | <a href="#">8074</a>     |
| Gene Name     | FGF23                    |
| Gene Alias    | ADHR, HPDR2, HYPF, PHPTC |

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Description   | fibroblast growth factor 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Omim ID            | <a href="#">193100</a> <a href="#">211900</a> <a href="#">605380</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Gene Summary       | <p>The protein encoded by this gene 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. The product of this gene 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 this gene was found in oncogenic hypophosphatemic osteomalacia (OHO), a phenotypically similar disease caused by abnormal phosphate metabolism. Mutations in this gene have also been shown to cause familial tumoral calcinosis with hyperphosphatemia. [provided by RefSeq]</p> |
| Other Designations | tumor-derived hypophosphatemia inducing factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## Pathway

- [MAPK signaling pathway](#)
- [Melanoma](#)
- [Pathways in cancer](#)
- [Regulation of actin cytoskeleton](#)

## Disease

- [Alzheimer disease](#)
- [Cardiovascular Diseases](#)
- [Diabetes Complications](#)
- [Hypercalcemia](#)
- [Hypercalciuria](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Osteoporosis](#)
- [Tobacco Use Disorder](#)