

## Recombinant Human FGF23 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** FGF23-3431H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | FGF23 MS Standard C13 and N15-labeled recombinant protein (NP_065689) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>      | This gene encodes a member of the fibroblast growth factor family of proteins, which possess broad mitogenic and cell survival activities and are involved in a variety of biological processes. The product of this gene regulates phosphate homeostasis and transport in the kidney. The full-length, functional protein may be deactivated via cleavage into N-terminal and C-terminal chains. Mutation of this cleavage site causes autosomal dominant hypophosphatemic rickets (ADHR). Mutations in this gene are also associated with hyperphosphatemic familial tumoral calcinosis (HFTC). |
| <b>Molecular Mass</b>   | 28 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>AA Sequence</b>      | MLGARLRLWVCALCSVCSMSVLRAYPNASPLLGSWGGLIHLTYTATARNSYHLQIH<br>KNGHVDGAPHQTIYSALMIRSEDAGFVVITGVMSRRYLCMDFRGNIFGSHYFDPEN<br>CRFQHQTLENGYDVYHSPQYHFLVSLGRAKRAFLPGMNPYPYSQFLSRRNEIPLIHF<br>NTPIPRRHTRSAEDDSERDPLNVLKPRARMTPAPASCSQELPSAEDNSPMASDPLG<br>VVRGGRVNTTHAGGTGPEGCRPFAKFITRTRPLEQKLISEEDLAANDILDYKDDDDKV                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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|                       |                                                                                            |
|-----------------------|--------------------------------------------------------------------------------------------|
| <b>Stability</b>      | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| <b>Storage</b>        | Store at -80 centigrade. Avoid repeated freeze-thaw cycles.                                |
| <b>Concentration</b>  | 50 µg/mL as determined by BCA                                                              |
| <b>Storage Buffer</b> | 100 mM glycine, 25 mM Tris-HCl, pH 7.3.                                                    |

## GENE INFORMATION

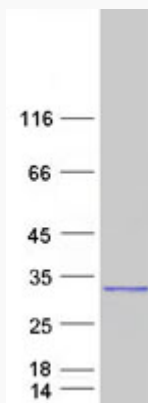
|                        |                                                                                                                                                                      |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | FGF23 fibroblast growth factor 23 [ Homo sapiens (human) ]                                                                                                           |
| <b>Official Symbol</b> | FGF23                                                                                                                                                                |
| <b>Synonyms</b>        | FGF23; fibroblast growth factor 23; ADHR; FGFN; HYPF; HFTC2; HPDR2; PHPTC; fibroblast growth factor 23; phosphatonin; tumor-derived hypophosphatemia inducing factor |
| <b>Gene ID</b>         | 8074                                                                                                                                                                 |
| <b>mRNA Refseq</b>     | NM_020638                                                                                                                                                            |
| <b>Protein Refseq</b>  | NP_065689                                                                                                                                                            |
| <b>MIM</b>             | 605380                                                                                                                                                               |
| <b>UniProt ID</b>      | Q9GZV9                                                                                                                                                               |

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## SDS-PAGE



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