

## Recombinant Rat Fgf23 protein, His-tagged

**Cat. No.** Fgf23-493R    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Rat Fgf23(aa 25-251) fused with His tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ProteinLength</b>    | 25-251 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | FGF23 is 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). |
| <b>Form</b>             | 20 mM Tris, pH 8.0, 500 mM NaCl, 50% glycerol                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Molecular Mass</b>   | 29.6 Kd                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>AA Sequence</b>      | YSDTSPLLGS NWGSLTHLYT ATARNSYHLQ IHRDGHVDGTPHQTIYSALM<br>ITSEDAGSVV IIGAMTRRFL CMDLRGNIFGSYHFSPENCR FRQWTLENGY<br>DVYLSPKHHY LVSLGRSKRIFQPGTNPPPF SQFLARRNEV PLLHFYTARP<br>RRHTRSAEDPPERDPLNVLK PRPRATPIPV SCSRELPSAE<br>EGGPAASDPLGVLRGRGDA RRGAGGTDRG RPFPRFV                                                                                                                                                                                                                    |

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**Storage** Long term: -80 centigrade; Short term: -20 centigrade. Avoid freeze-thaw cycles.

## GENE INFORMATION

**Gene Name** Fgf23 fibroblast growth factor 23 [ *Rattus norvegicus* ]

**Official Symbol** Fgf23

**Synonyms** FGF23; fibroblast growth factor 23; FGF-23;

**Gene ID** 170583

**mRNA Refseq** NM\_130754

**Protein Refseq** NP\_570110

**MIM**

**UniProt ID** Q8VI82

**Chromosome Location** 4q42

**Pathway** Downstream signaling of activated FGFR, organism-specific biosystem; FGFR ligand binding and activation, organism-specific biosystem; FGFR1 ligand binding and activation, organism-specific biosystem; FGFR1c and Klotho ligand binding and activation, organism-specific biosystem; FGFR1c ligand binding and activation, organism-specific biosystem

**Function** fibroblast growth factor receptor binding; fibroblast growth factor receptor binding; growth factor activity; type 1 fibroblast growth factor receptor binding; type 1 fibroblast growth factor receptor binding;

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