# Active Recombinant Human FGF23 Protein (Tyr25-Ile251), C-His tagged, Animal-free, Carrier-free

**Cat. No.** FGF23-298H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human FGF23 Protein (Tyr25-Ile251) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free. |
| **Species** | Human |
| **Source** | E.coli |
| **ProteinLength** | Tyr25-Ile251 |
| **Description** | Fibroblast Growth Factors-23 (FGF-23) is a 28 kDa member of the fibroblast Growth Factors with 251 amino acid residues. FGF-23 is expressed from brain, hepatic stellate cells, cone photoreceptor cells, early spermatids. FGF-23 involved phosphate metabolism and vitamin D metabolism. Negatively regulates osteoblast differentiation and matrix mineralization. |
| **Form** | Lyophilized |
| **Bio-activity** | Measure by its ability to induce proliferation in BaF3 cells transfected with human FGFRIIIc. The ED50 for this effect is < 0.3 μg/mL. |
| **Molecular Mass** | The protein has a calculated MW of 26.27 kDa.<br>The protein migrates as 26 kDa under reducing condition (SDS-PAGE analysis). |
| **Endotoxin** | < 0.1 EU/μg of the protein by the LAL method. |

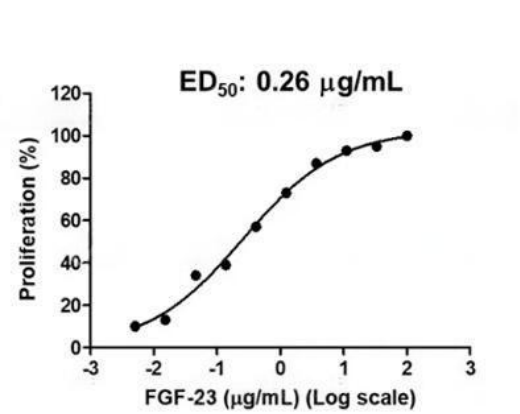
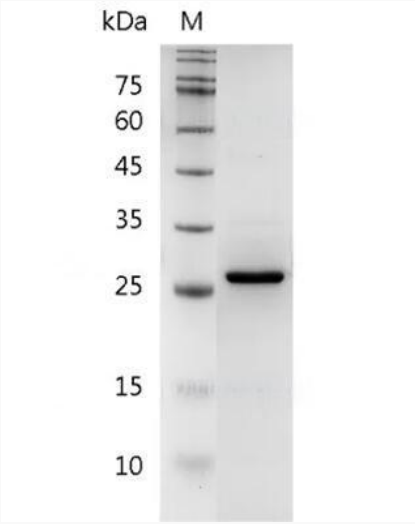
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| **Purity** | >98% as determined by SDS-PAGE analysis. |
| **Storage** | This product is stable after storage at:<br>-20 centigrade for 12 months in lyophilized state from date of receipt.<br>-20 or -80 centigrade for 1 month under sterile conditions after reconstitution.<br>Avoid repeated freeze/thaw cycles. |
| **Storage Buffer** | Lyophilized from a 0.2 μm filtered solution of PBS, pH 8.0. |
| **Reconstitution** | It is recommended to reconstitute the lyophilized protein in sterile H2O to a concentration not less than 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved. |
| **Shipping** | The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage. |

## GENE INFORMATION

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

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| **MIM** | 605380 |
| **UniProt ID** | Q9GZV9 |
| **Activity** | <br>Human FGF-23, His Tag, E. coli (LDG087PHE) induced proliferation in BaF3 cells transfected with human FGFRIIIc, with the ED50 at 0.26 μg/mL. |
| **SDS-PAGE analysis of recombinant human FGF-23.** |  |

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