Recombinant human FGF-23 Protein

Catalog No.: RP01740

Sequence Information

Species
human

Gene ID
8074

Swiss Prot
Q9GZV9

Tags
C-His

Synonyms
ADHR; FGFN; HYPF; HFTC2; HPDR2; PHPTC

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
26.17 kDa

Observed MW
35 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of 20mM MOPS，150mM NaCl，5mM EDTA，2mM DTT, pH 7.4

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Fibroblast growth factor 23 (FGF23) is is an endocrine member of the family of FGFs and mainly produced in the bone and, upon secretion, forms a complex with a FGF receptor and coreceptor αKlotho. FGF23 can exert several endocrine functions, such as acting as a hormone on the kidney, stimulating phosphate excretion and suppressing formation of 1,25(OH)2D3, active vitamin D. Moreover, it has paracrine activities on several cell types, including neutrophils and hepatocytes. FGF23 and phosphate have been revealed to be factors relevant in cancer. FGF23 is particularly significant for those forms of cancer primarily affecting bone (e.g., multiple myeloma) or characterized by bone metastasis.

Basic Information

Description
Recombinant human FGF-23 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Tyr25-Ile251) of human FGF-23/Fibroblast growth factor 23 (Accession #NP_065689.1) fused witha 6×His tag at the C-terminus.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

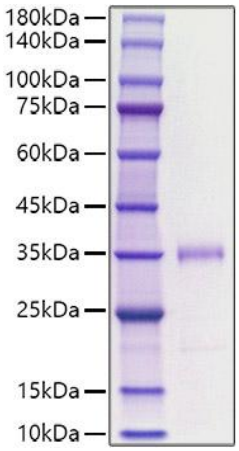
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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Validation Data



Recombinant human FGF-23 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.