

Recombinant Human FGF-6 Protein

Catalog No.: RP01440 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	2251	P10767

Tags

No tag

Synonyms

FGF6;HBGF-6;HST2

Product Information

Source	Purification
<i>E. coli</i>	> 95% by SDS-PAGE.

Calculated MW	Observed MW
18.72 kDa	19 kDa

Endotoxin

Please contact us for more information.

Formulation

Lyophilized from a 0.22 µm filtered solution of PBS, 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

FGF6, also known as FGF-6, belongs to the fibroblast growth factor (FGF) family. Members of this family 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. FGF6 plays an important role in the regulation of cell proliferation, cell differentiation, angiogenesis and myogenesis. It is also required for normal muscle regeneration. FGF6 gene displayed oncogenic transforming activity when transfected into mammalian cells.

Basic Information

Description

Recombinant Human FGF-6 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Gly41-Ile208) of human FGF6 (Accession #NP_066276.2) fused with no additional amino acid.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human FGF6 Protein at 1 µg/mL (100 µL/well) can bind FGFR4 with a linear range of 1.95-97.8 ng/mL.

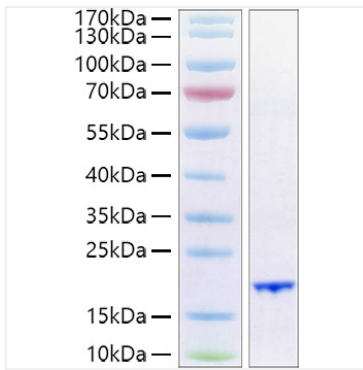
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

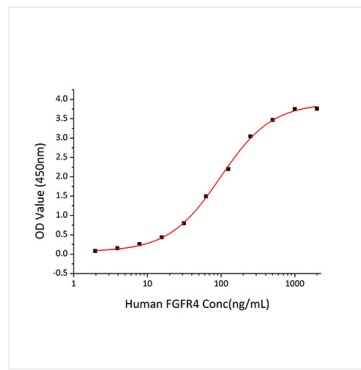
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human FGF-6 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 19kDa.



Immobilized Recombinant Human FGF6 Protein at 1 $\mu\text{g}/\text{mL}$ (100 $\mu\text{L}/\text{well}$) can bind FGFR4 with a linear range of 1.95-97.8 ng/mL.