

# Recombinant Human FGFR-3 alpha (IIIb)/CD333 Protein

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Catalog No.: RP00463

Recombinant

## Sequence Information

| Species | Gene ID | Swiss Prot |
|---------|---------|------------|
| Human   | 2261    | P22607-2   |

### Tags

C-His&amp;Avi

### Synonyms

ACH; CD333; CEK; CEK2; EC 2.7.10; FGF R3; FGFR3; HSGFR3EX; JTK4

## Product Information

| Source       | Purification                                                    |
|--------------|-----------------------------------------------------------------|
| HEK293 cells | ≥ 95 % as determined by SDS-PAGE; ≥ 95 % as determined by HPLC. |

| Calculated MW | Observed MW |
|---------------|-------------|
| 41.4 kDa      | 65-75 kDa   |

### Endotoxin

&lt; 1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

### 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

Four distinct genes encoding closely related FGF receptors, FGF R1-4, are known. All four genes for FGF Rs encode proteins with an N-terminal signal peptide, three immunoglobulin (Ig)-like domains, an acid?box region containing a run of acidic residues between the Igl and IgII domains, a transmembrane domain and the split tyrosine-kinase domain. FGFR3 is tyrosine-protein kinase that acts as cell-surface receptor for fibroblast growth factors and plays an essential role in the regulation of cell proliferation, differentiation and apoptosis. Plays an essential role in the regulation of chondrocyte differentiation, proliferation and apoptosis, and is required for normal skeleton development. Regulates both osteogenesis and postnatal bone mineralization by osteoblasts.

## Basic Information

### Description

Recombinant Human FGFR-3 alpha (IIIb)/CD333 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Glu23-Gly377) of Human FGFR3 alpha (IIIb) (Accession #P22607-2) fused with a C-His&Avi tag at the C-terminus.

### Bio-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

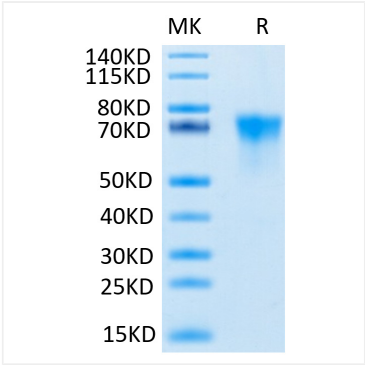
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

### Operational Notes

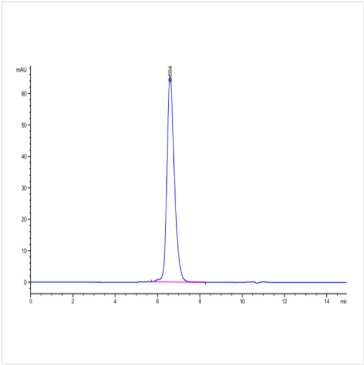
For your safety and health, please wear a lab coat and disposable gloves for handling.



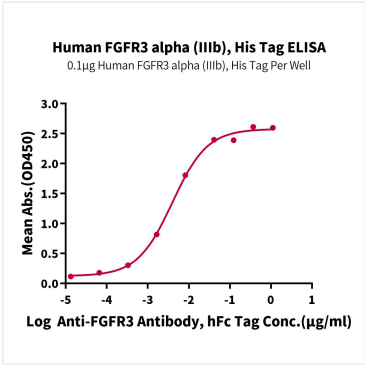
Validation Data



Recombinant Human FGFR-3 alpha (IIIb)/CD333 Protein was determined by Tris-Bis PAGE under reducing conditions.



The purity of Human FGFR3 alpha (IIIb) is greater than 95% as determined by SEC-HPLC.



Immobilized Human FGFR3 alpha (IIIb) , His Tag at 1 µg/mL (100 µL/well) on the plate. Dose response curve for Anti-FGFR3 Antibody, hFc Tag with the EC<sub>50</sub> of 4.0ng/mL determined by ELISA.