

# Recombinant Human FGFR-2 beta (IIIb)/KGFR/CD332 Protein

Catalog No.: RP02531 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	2263	P21802-3

### Tags

C-His

### Synonyms

Fibroblast growth factor receptor  
2[FGFR-2][KGFR][K-sam][Keratinocyte  
growth factor  
receptor][CD332][BEK][KSAM

## Product Information

Source	Purification
HEK293 cells	> 95% as determined by Tris-Bis PAGE[> 95% as determined by HPLC

Calculated MW	Observed MW
26.5 kDa	45-60 kDa

### Endotoxin

Less than 1EU per µg by the LAL method.

### Formulation

### Reconstitution

Centrifuge the tube 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. Multiple forms of FGF R1 - 3 are generated by alternative splicing of the mRNAs. A frequent splicing event involving FGF R1 and 2 results in receptors containing all three Ig domains, referred to as the alpha? isoform, or only IgII and IgIII, referred to as the beta? isoform.

## Basic Information

### Description

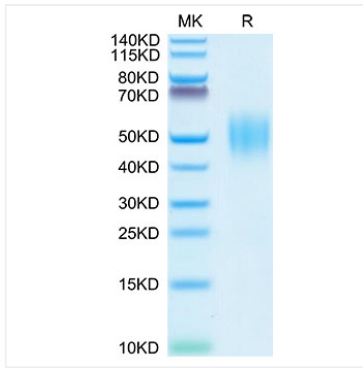
Recombinant Human FGFR-2 beta (IIIb)/KGFR/CD332 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Arg152-Glu378) of human FGFR-2 beta (IIIb)/KGFR/CD332 (Accession #P21802-3) fused with His tag at the C-terminus.

### Bio-Activity

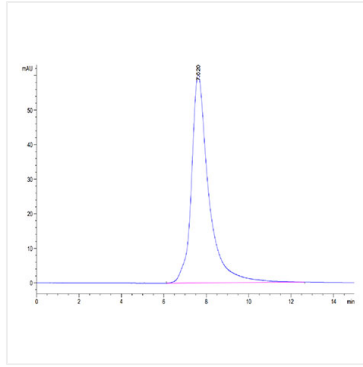
### Storage

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.

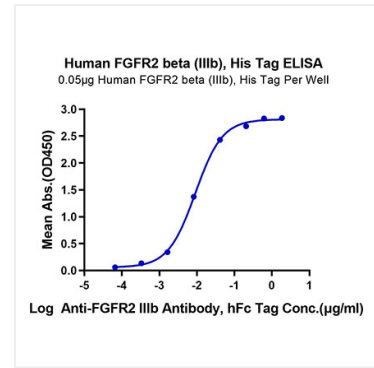
## Validation Data



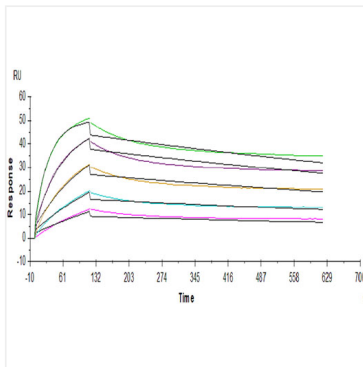
Human FGFR2 beta (IIIb) on Tris-Bis PAGE under reduced conditions. The purity is greater than 95%.



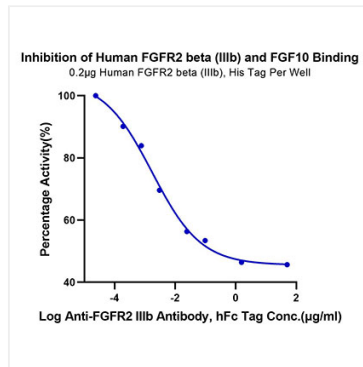
The purity of Human FGFR2 beta (IIIb) is greater than 95% as determined by SEC-HPLC.



Immobilized Human FGFR2 beta (IIIb) , His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-FGFR2 IIIb Antibody, hFc Tag with the EC<sub>50</sub> of 9ng/ml determined by ELISA.



Anti-FGFR2 Antibody, hFc Tag can bind Human FGFR2 beta (IIIb) , His Tag with an affinity constant of 1.98nM as determined in a SPR assay (Biacore T200).



Serial dilutions of Anti-FGFR2 IIIb Antibody were added into Human FGFR2 beta (IIIb) , His Tag : Biotinylated Human FGF10, No Tag binding reactions. The half maximal inhibitory concentration (IC<sub>50</sub>) is 1.74ng/ml.