

Human FGFR2 beta (IIIb) Protein

Cat. No. FGR-HM2BB

Description

Source	Recombinant Human FGFR2 beta (IIIb) Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Arg152-Glu378.
Accession	P21802-3
Molecular Weight	The protein has a predicted MW of 52.2 kDa. Due to glycosylation, the protein migrates to 68-75 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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 IgI 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.

Assay Data

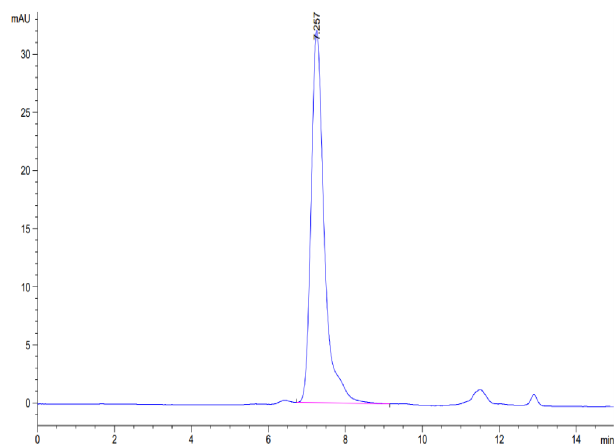
Tris-Bis PAGE



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

SEC-HPLC

Assay Data



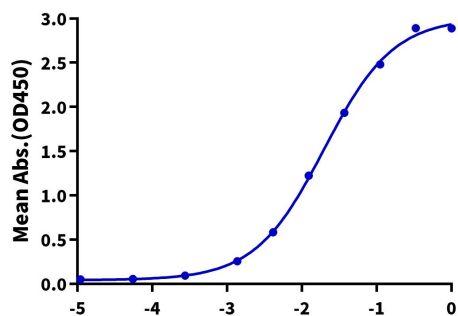
The purity of Human FGFR2 beta (IIIb) is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human FGFR2 beta (IIIb), hFc Tag ELISA

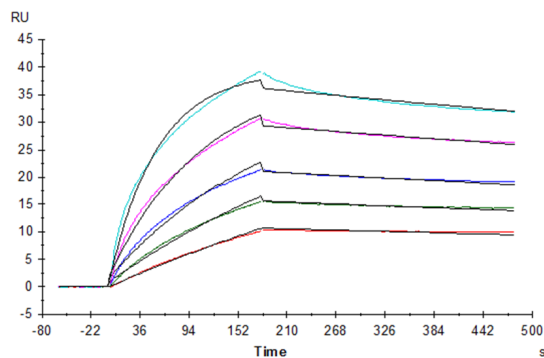
0.05µg Human FGFR2 beta (IIIb), hFc Tag Per Well



Immobilized Human FGFR2 beta (IIIb) , hFc Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Anti-FGFR2 (IIIb) Antibody, hFc Tag with the EC50 of 19.9ng/ml determined by ELISA (QC Test).

Log Biotinylated Anti-FGFR2 (IIIb) Antibody, hFc Tag Conc.(µg/ml)

SPR Data



Human FGF10, No Tag immobilized on CM5 Chip can bind Human FGFR2 beta (IIIb) , hFc Tag with an affinity constant of 0.299 nM as determined in SPR assay (Biacore T200).