Human FGFR2 beta (IIIb) Protein

Cat. No. FGF-HM12D

Description

Source	Recombinant Human FGFR2 beta (IIIb) Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Pro154-Leu358.
Accession	P21802-3
Molecular Weight	The protein has a predicted MW of 24 kDa. Due to glycosylation, the protein migrates to 50-70 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

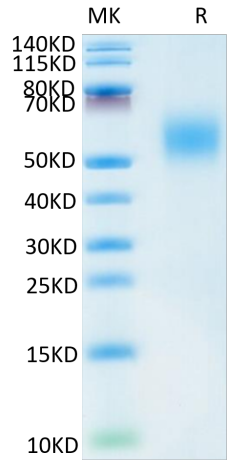
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months 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

Bis-Tris PAGE



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

SEC-HPLC

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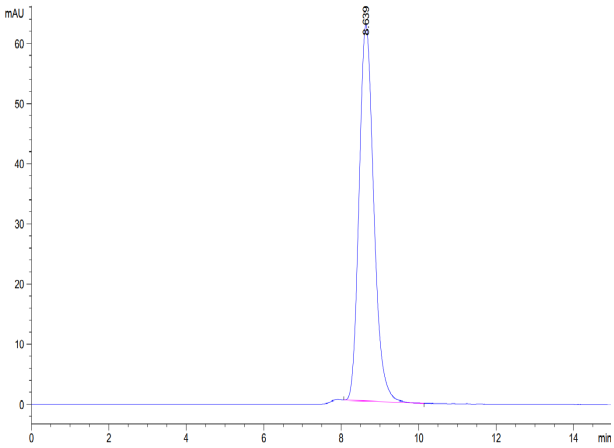
Assay Data



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

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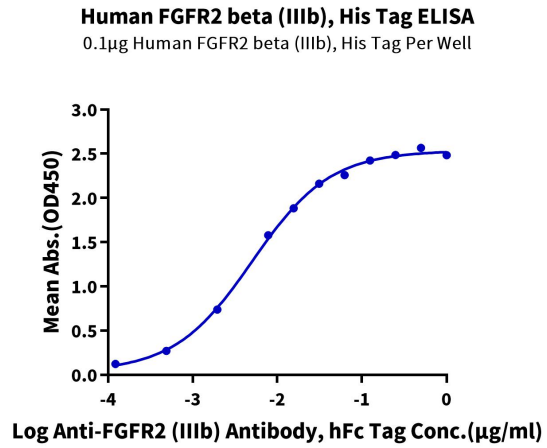
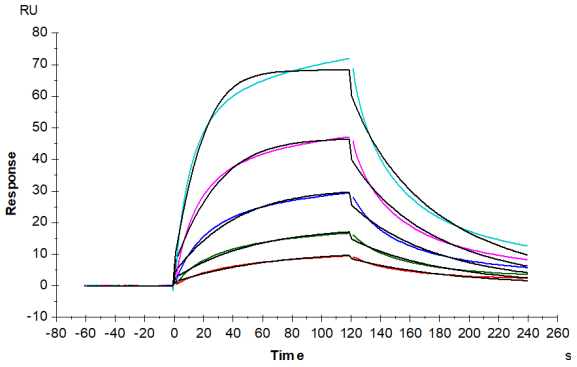
Assay Data

ELISA Data



Immobilized Human FGFR2 beta (IIIb) at 1μg/ml (100μl/well) on the plate. Dose response curve for Anti-FGFR2 (IIIb) Antibody, hFc Tag with the EC50 of 5.1ng/ml determined by ELISA.

SPR Data



Human FGF-7, His Tag immobilized on CM5 Chip can bind Human FGFR2 beta (IIIb) , His Tag with an affinity constant of 18.91 nM as determined in SPR assay (Biacore T200).