

Human FGFR4 Protein

Cat. No. FGF-HM2R4

Description

Source	Recombinant Human FGFR4 Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Leu22-Asp369.
Accession	P22455
Molecular Weight	The protein has a predicted MW of 65.3 kDa. Due to glycosylation, the protein migrates to 80-95 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

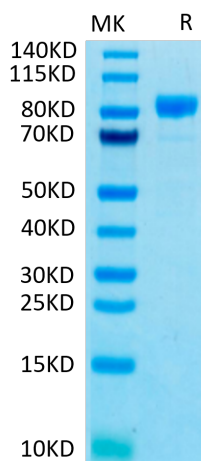
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state 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

Fibroblast growth factor receptor 4 (FGF R4), also known as CD334, is a 110 kDa glycosylated transmembrane receptor tyrosine kinase. Tyrosine-protein kinase that acts as cell-surface receptor for fibroblast growth factors and plays a role in the regulation of cell proliferation, differentiation and migration, and in regulation of lipid metabolism, bile acid biosynthesis, glucose uptake, vitamin D metabolism and phosphate homeostasis. Required for normal down-regulation of the expression of CYP7A1, the rate-limiting enzyme in bile acid synthesis, in response to FGF19.

Assay Data

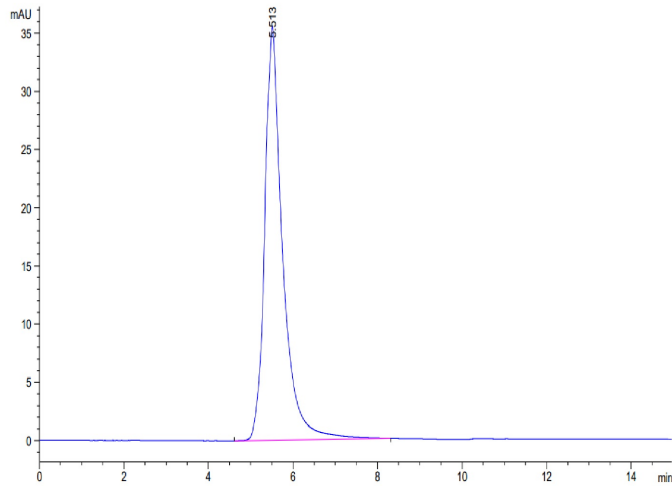
Tris-Bis PAGE



Human FGFR4 on Tris-Bis PAGE under reduced conditions. The purity is greater than 95%.

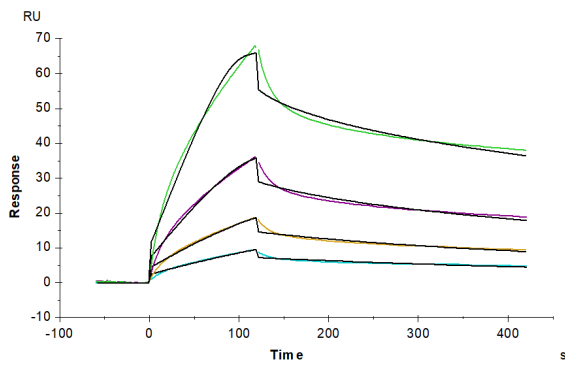
SEC-HPLC

Assay Data



The purity of Human FGFR4 is greater than 95% as determined by SEC-HPLC.

SPR Data



Human FGFR4, hFc Tag captured on CM5 Chip via Protein A can bind Human Beta Klotho, His Tag with an affinity constant of 13.05 nM as determined in SPR assay (Biacore T200).