

**Synonym**

FGFR4,CD334,JTK2,MGC20292,TKF

**Source**

Human FGF R4, Fc Tag(FG4-H5253) is expressed from human 293 cells (HEK293). It contains AA Leu 22 - Asp 369 (Accession # [P22455-1](#) ).

Predicted N-terminus: Leu 22

**Molecular Characterization**

FGF R4(Leu 22 - Asp 369) P22455-1	Fc(Pro 100 - Lys 330) P01857
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This protein carries a human IgG1 Fc tag at the C-terminus

The protein has a calculated MW of 65.0 kDa. The protein migrates as 80-100 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

**Formulation**

Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

**Reconstitution**

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

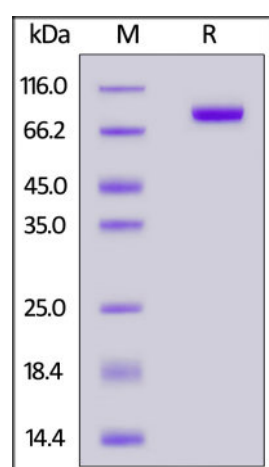
**Storage**

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

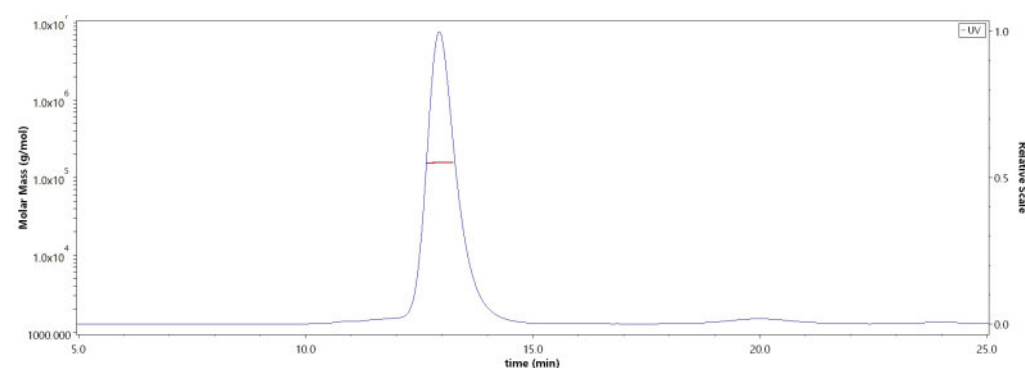
*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

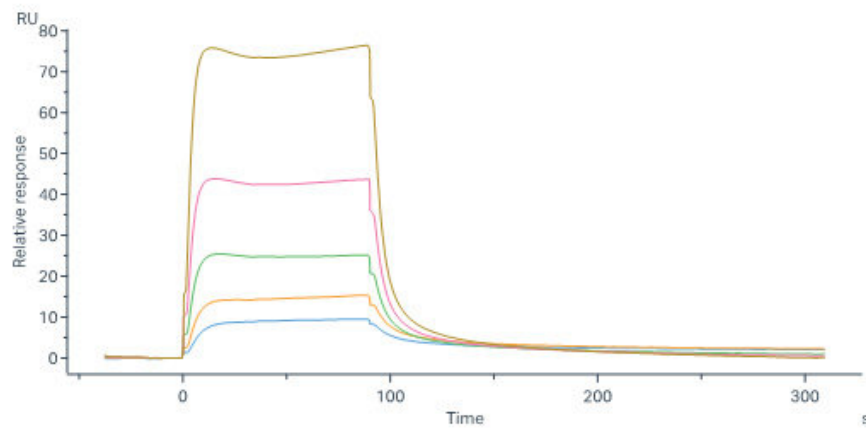
**SDS-PAGE**

Human FGF R4, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

**Bioactivity-SPR****SEC-MALS**

The purity of Human FGF R4, Fc Tag (Cat. No. FG4-H5253) is more than 90% and the molecular weight of this protein is around 145-175 kDa verified by SEC-MALS.

[Report](#)



Human FGF R4, Fc Tag (Cat. No. FG4-H5253) immobilized on CM5 Chip can bind Human FGF-4 Protein, His Tag (Cat. No. FG4-H51H3) with an affinity constant of 1.48  $\mu\text{M}$  as determined in a SPR assay (Biacore 8K) (QC tested).

### Background

Fibroblast growth factor receptor 4 (FGFR4) is also known as CD334, JTK2, hydroxyaryl-protein kinase, TKF, protein-tyrosine kinase. The FGFR4 gene provides instructions for making a protein called fibroblast growth factor receptor 4. This protein is part of a family of fibroblast growth factor receptors that share similar structures and functions. These receptor proteins play a role in important processes such as cell division, regulating cell growth and maturation, formation of blood vessels, wound healing, and embryo development. The FGFR4 protein interacts with specific growth factors to conduct signals from the environment outside the cell to the nucleus. The nucleus responds to these signals by switching on or off appropriate genes that help the cell adjust to changes in the environment. In response, the cell might divide, move, or mature to take on specialized functions. Although specific functions of FGFR4 remain unclear, studies indicate that the gene is involved in muscle development and the maturation of bone cells in the skull. The FGFR4 gene may also play a role in the development and maintenance of specialized cells (called foveal cones) in the light-sensitive layer (the retina) at the back of the eye.

### Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.