

**Synonym**

FGF R3 (IIIc), FGF R3C, CD333

**Source**

Human FGF R3 (IIIc), Fc Tag (FGC-H5256) is expressed from human 293 cells (HEK293). It contains AA Glu 23 - Gly 375 (Accession # [P22607-1](#)).

Predicted N-terminus: Glu 23

**Molecular Characterization****FGF R3 (IIIc)(Glu 23 - Gly 375)****P22607-1****Fc(Pro 100 - Lys 330)****P01857**[Other Tags and Version](#) [Biotin & Other Labeled Version](#)

This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 64.6 kDa. The protein migrates as 80-90 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**Less than 1.0 EU per  $\mu$ g by the LAL method / rFC method.**Purity**

&gt;95% as determined by SDS-PAGE.

&gt;90% as determined by SEC-MALS.

**Formulation**Lyophilized from 0.22  $\mu$ m 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.

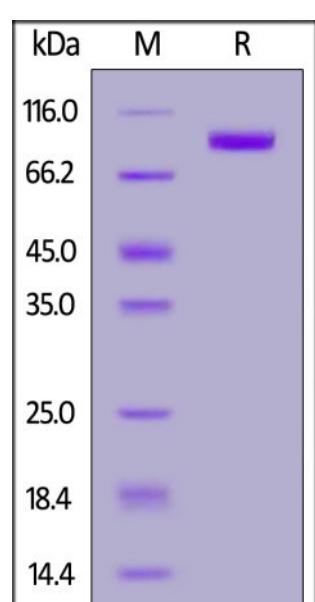
**Please avoid repeated freeze-thaw cycles.**

This product is stable after storage at:

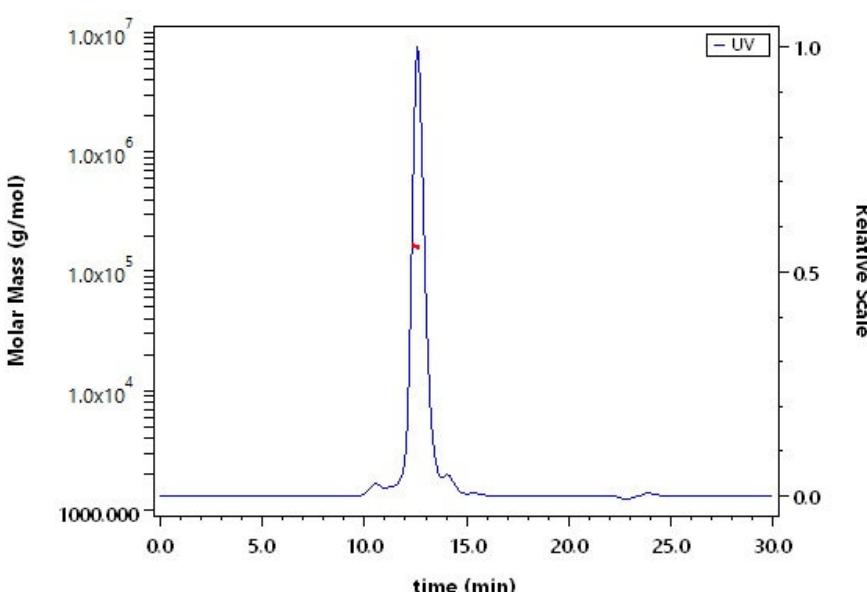
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

**ACRO Quality Management System**

- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

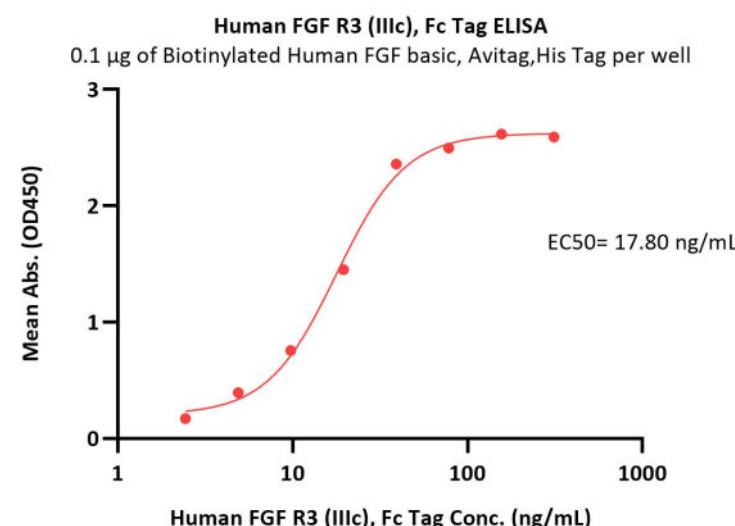
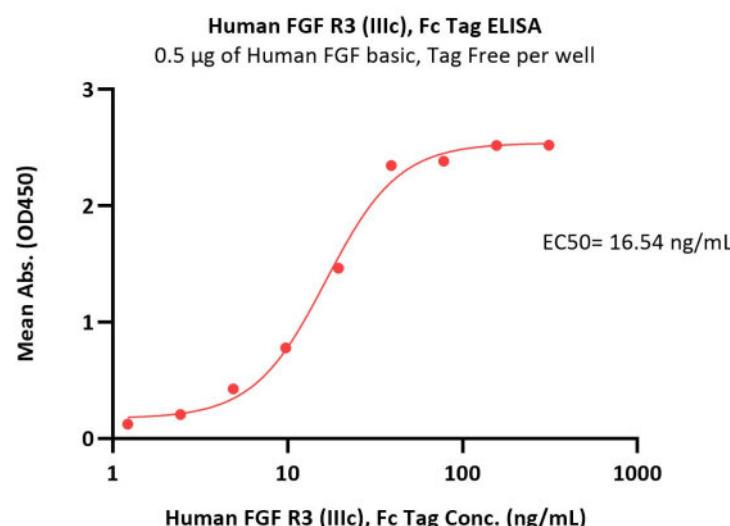
**SDS-PAGE**

Human FGF R3 (IIIc), Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than

**SEC-MALS**

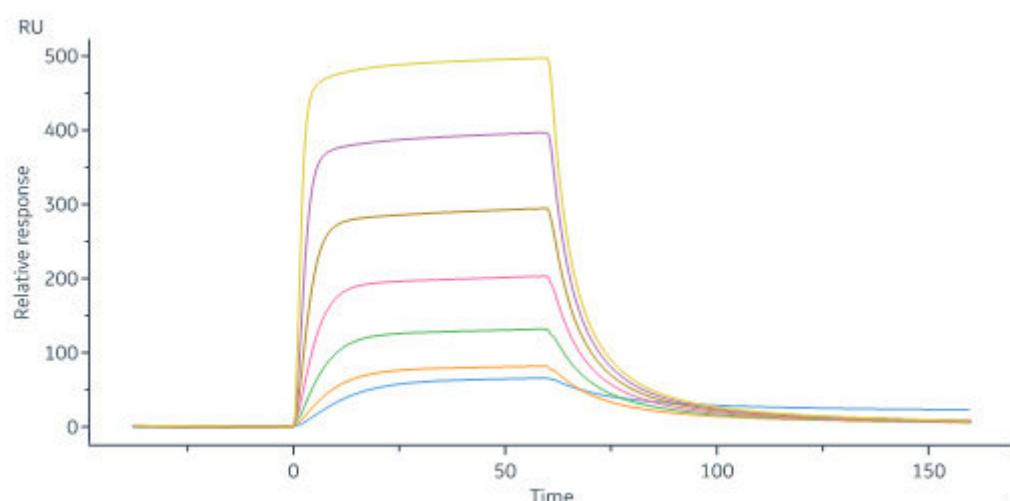
The purity of Human FGF R3 (IIIc), Fc Tag (Cat. No. FGC-H5256) is more than 90% and the molecular weight of this protein is around 148-180 kDa verified by

## Bioactivity-ELISA

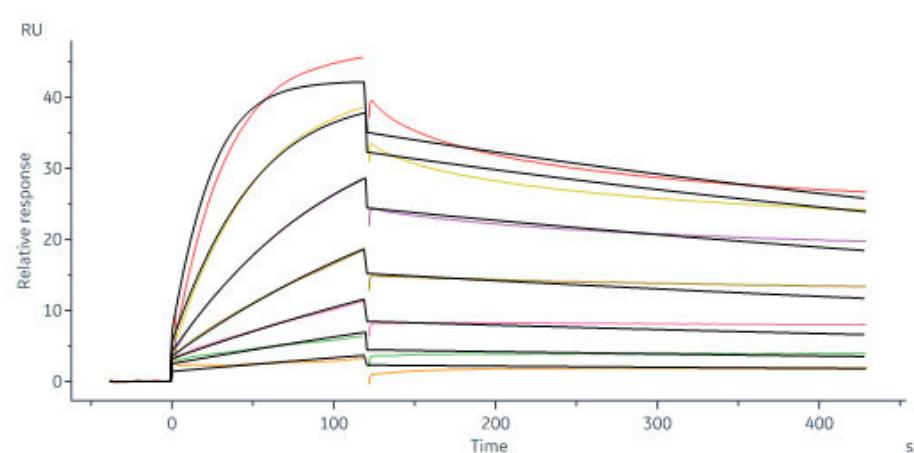


Immobilized Human FGF basic, premium grade (Cat. No. BFF-H4117) at 5 µg/mL immobilized Biotinylated Human FGF basic, Avitag,His Tag (Cat. No. FGC-H5256) (100 µL/well) can bind Human FGF R3 (IIIc), Fc Tag (Cat. No. FGC-H5256) with H81E3 at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Human FGF R3 (IIIc), Fc Tag (Cat. No. FGC-H5256) with a linear range of 2-39 ng/mL (Routinely tested).

## Bioactivity-SPR



Human FGF R3 (IIIc), Fc Tag immobilized (Cat. No. FGC-H5256) on CM5 Chip can bind Human FGF acidic, Tag Free (Cat. No. AFF-H4116) with an affinity constant of 0.44 µM as determined in a SPR assay (Biacore 8K) (Routinely tested).



Human FGF R3 (IIIc), Fc Tag (Cat. No. FGC-H5256) immobilized on CM5 Chip can bind Human FGF-9, Fc Tag (Cat. No. FG9-H4267) with an affinity constant of 10.5 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).

## Background

Fibroblast growth factor receptors (FGFR) are transmembrane kinase proteins with growing importance in cancer biology given the frequency of molecular alterations and vast interface with multiple other signaling pathways. The FGFR3 gene is at the human chromosomal locus 4p16.3 also encodes two isoforms: FGF R3 (IIIb) FGF R3 (IIIc). Upregulated expression of FGFR3 protein is also found in a significant number of tumors. Additionally, FGFR3 has been found to trigger resistance to tamoxifen via the activation of the PLC $\gamma$  signaling cascade.

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