

Synonym

FGF-5, Fibroblast growth factor 5, HBGF-5

Source

Human FGF-5 Protein, His Tag (FG5-H51H3) is expressed from *E. coli* cells. It contains AA Glu 23 - Gly 268 (K238N, P245S) (Accession # [P12034-1](#)).  
Predicted N-terminus: Glu 23

Molecular Characterization

FGF-5(Glu 23 - Gly 268)  
P12034-1

Poly-his

[Other Tags and Version](#) [Biotin & Other Labeled Version](#)

This protein carries a polyhistidine tag at the C-terminus.  
The protein has a calculated MW of 29.4 kDa. The protein migrates as 35-38 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE).

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 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

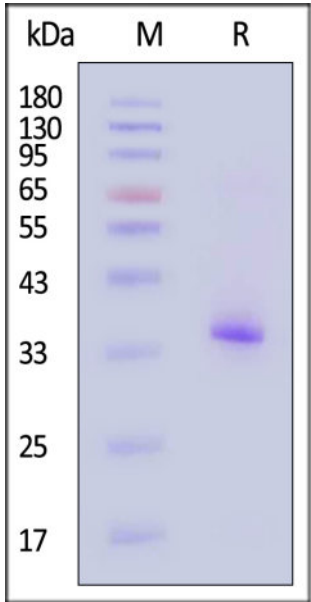
For long term storage, the product should be stored at lyophilized state at -20°C or lower.  
**Please avoid repeated freeze-thaw cycles.**  
This product is stable after storage at:

- -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

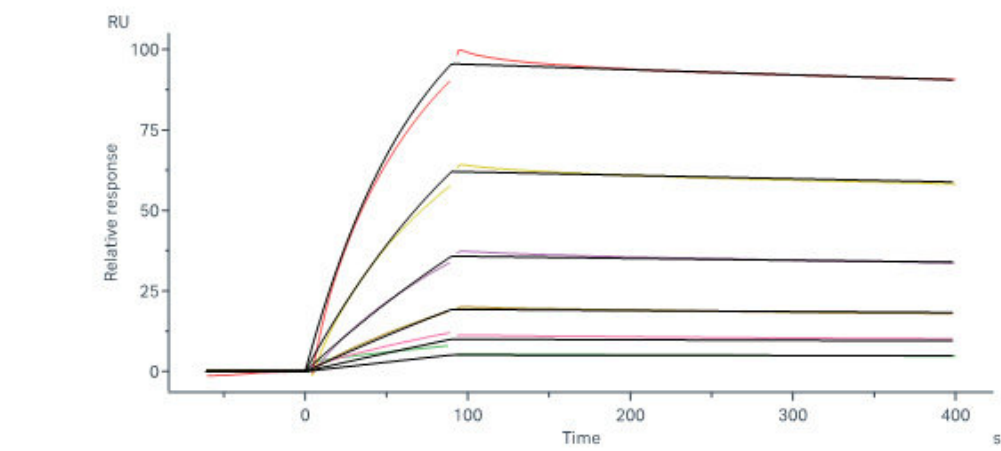
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



Human FGF-5 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

# Bioactivity-SPR



Human FGF-5 Protein, His Tag (Cat. No. FG5-H51H3) captured on CM5 chip via anti-His antibody can bind Human FGF R2 (IIIb), Fc Tag (Cat. No. FGB-H5256) with an affinity constant of 63.3 nM as determined in a SPR assay (Biacore 8K) (QC tested).

## Background

Fibroblast growth factor-5 (FGF5) is a member of the fibroblast growth factor (FGF) family and acts as a crucial regulator of hair growth and an oncogenic factor in several human cancers. Generally, Fibroblast growth factor 5 (FGF5) is widely expressed in embryonic but scarcely in adult tissues. Overexpression of FGF5 has been associated with prostate cancer, pancreatic cancer, breast cancer, renal cell carcinoma, etc. it was confirmed that FGF5 contributes to the malignant progression of human astrocytic brain tumors by both autocrine and paracrine effects.

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