

# Human FGF19 Protein, Mouse IgG2a Fc Tag

Catalog # FG9-H5254



BIOSYSTEMS  
**Acro**

Surprise Inside!

## Synonym

FGF19, FGF-19, Fibroblast growth factor 19

## Source

Human FGF19 Protein, Mouse IgG2a Fc Tag (FG9-H5254) is expressed from human 293 cells (HEK293). It contains AA Leu 25 - Lys 216 (Accession # [O95750-1](#)).

Predicted N-terminus: Leu 25

## Molecular Characterization

FGF19(Leu 25 - Lys 216)  
O95750-1

mFc(Glu 98 - Lys 330)  
P01863

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

This protein carries a mouse IgG2a Fc tag at the C-terminus.

The protein has a calculated MW of 48.3 kDa. The protein migrates as 53-55 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

## Purity

>90% as determined by SDS-PAGE.

## 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.**

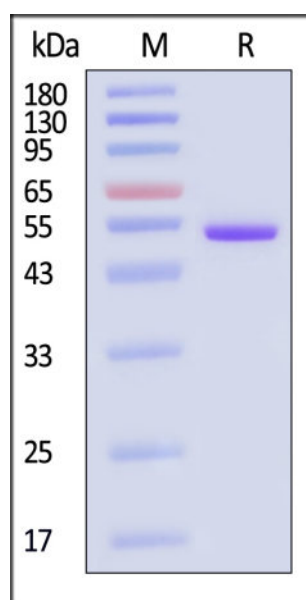
This product is stable after storage at:

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

## ACRO Quality Management System

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

## SDS-PAGE



Human FGF19 Protein, Mouse IgG2a Fc 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](#)).

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## Background

Fibroblast Growth Factor 19 (FGF19) is a hormone belonging to the FGF family, encoded by the FGF19 gene. It is primarily synthesized and secreted in the ileum in response to bile acid absorption, acting as a ligand for the farnesoid X receptor (FXR). FGF19's core function is to exert negative feedback on hepatic bile acid synthesis by binding to the Fibroblast Growth Factor Receptor 4 (FGFR4)/Klotho- $\beta$  complex in the liver, thereby inhibiting cholesterol 7 $\alpha$ -hydroxylase (CYP7A1). Additionally, it plays a role in glucose and lipid metabolism. Its mouse ortholog is FGF15, and they are often referred to collectively as FGF15/19. Altered FGF19 levels are implicated in chronic bile acid diarrhea and certain metabolic disorders.

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