



## Synonym

GPRC5D

## Source

Biotinylated Human GPRC5D, His,Avitag&Flag Tag(GPD-H82D6) is expressed from human 293 cells (HEK293). It contains AA Tyr 2 - Phe 192 & Glu 197 - Leu 262 (Accession # [Q9NZD1-2](#)).

Predicted N-terminus: Asp

## Molecular Characterization



This protein carries a Flag tag at the N-terminus and a polyhistidine tag at the C-terminus followed by an Avi tag (Avitag™).

The protein has a calculated MW of 53.5 kDa. The protein migrates as 35-40 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE).

## Labeling

*Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.*

## Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

## Endotoxin

Less than 1.0 EU per µg by the LAL method.

\*\*The DDM/CHS buffer (Cat. No. [DC-11](#)) is sold separately and not included in protein, you can follow [this link](#) for product information.

## Purity

>80% as determined by SDS-PAGE.

## Formulation

*This product is not suitable for cell based experiments due to cytotoxicity of DDM.*

*DDM and CHS are INDISPENSABLE to keep membrane protein soluble and active, under no circumstance should you remove DDM and CHS.*

*DDM/CHS buffer (DC-11) is sold separately and not included in protein, and please contact us if you need the buffer.*

*If glycerol is not compatible to your application, remove glycerol just before immediate experiment, and NEVER store glycerol-free protein solution.*

Supplied as 0.2 µm filtered solution in 50 mM HEPES, 150 mM NaCl, DDM, CHS, pH7.5 with glycerol as protectant.

Contact us for customized product form or formulation.

## Shipping

*This product is supplied and shipped with dry ice, please inquire the shipping cost.*

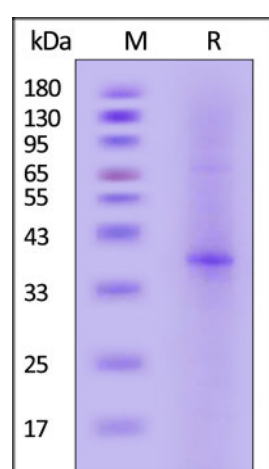
## Storage

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

## SDS-PAGE

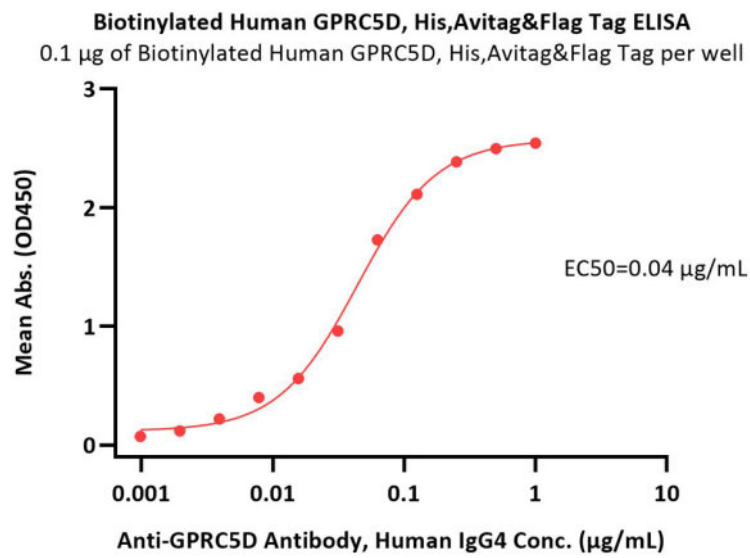


Biotinylated Human GPRC5D, His,Avitag&Flag Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 80% (With [Star Ribbon Pre-stained Protein Marker](#)).

## Bioactivity-ELISA

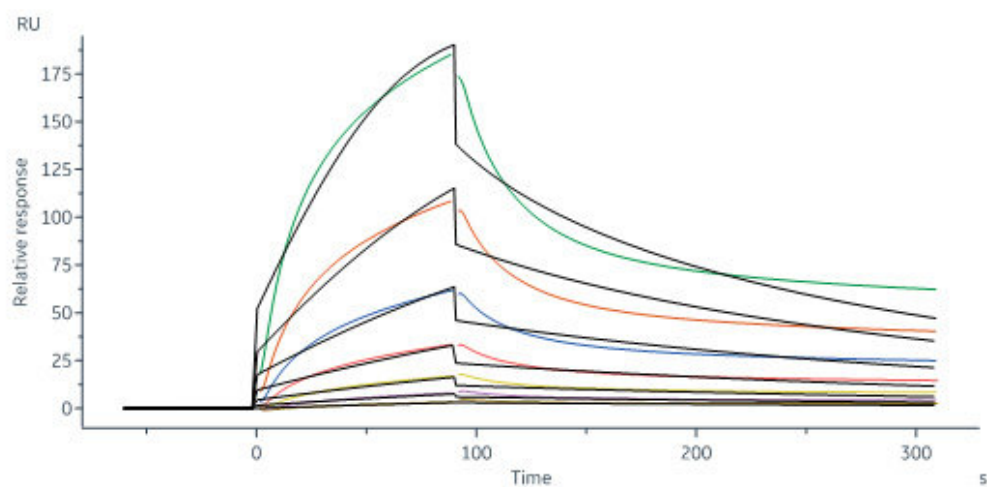
Discounts, Gifts,  
and more!





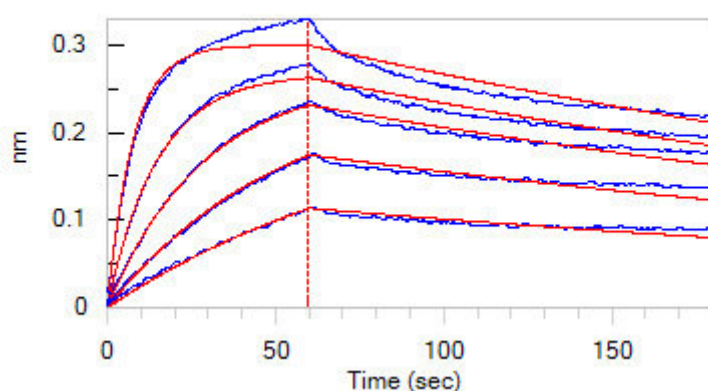
Immobilized Biotinylated Human GPRC5D, His,Avitag&Flag Tag (Cat. No. GPD-H82D6) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Anti-GPRC5D Antibody, Human IgG4 with a linear range of 0.001-0.25 µg/mL (QC tested).

## Bioactivity-SPR



Anti-GPRC5D Antibody captured on CM5 chip via Anti-human IgG Fc antibodies surface can bind Biotinylated Human GPRC5D, His,Avitag&Flag Tag (Cat. No. GPD-H82D6) with an affinity constant of 0.112 µM as determined in a SPR assay (in presence of DDM and CHS) (Biacore 8K) (Routinely tested).

## Bioactivity-BLI



Loaded Biotinylated Human GPRC5D, His,Avitag&Flag Tag (Cat. No. GPD-H82D6) on SA Biosensor, can bind Anti-GPRC5D Antibody, Human IgG4

Discounts, Gifts,  
and more!



# Biotinylated Human GPRC5D Protein, His,Avitag™ &Flag Tag (Detergent)

Catalog # GPD-H82D6



BIOSYSTEMS  
**Acro**

with an affinity constant of 1.14 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

## Background

The protein encoded by this gene is a member of the G protein-coupled receptor family; however, the specific function of this gene has not yet been determined. (provided by RefSeq, Jul 2008)

## Clinical and Translational Updates

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

Discounts, Gifts,  
and more!



➤ [www.acrobiosystems.com](http://www.acrobiosystems.com)

11/24/2023