



## Synonym

GPC5D, G-protein coupled receptor family C group 5 member D

## Source

Cynomolgus GPRC5D, Flag,His Tag(GPD-C52D3) is expressed from human 293 cells (HEK293). It contains AA Tyr 2 - Phe 192 & Glu 197 - Leu 262 (Accession # [A0A2K5W6I7-1](#)).

Predicted N-terminus: Asp

## Molecular Characterization



This protein carries a flag tag at the N-terminus and a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 51.9 kDa. The protein migrates as 35-40 kDa under reducing (R) condition (SDS-PAGE).

## Endotoxin

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

## Purity

>90% 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  $\mu$ m 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

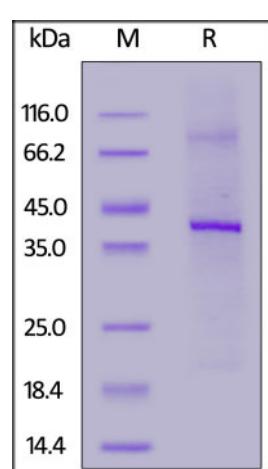
*Please avoid repeated freeze-thaw cycles.*

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.

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

## SDS-PAGE



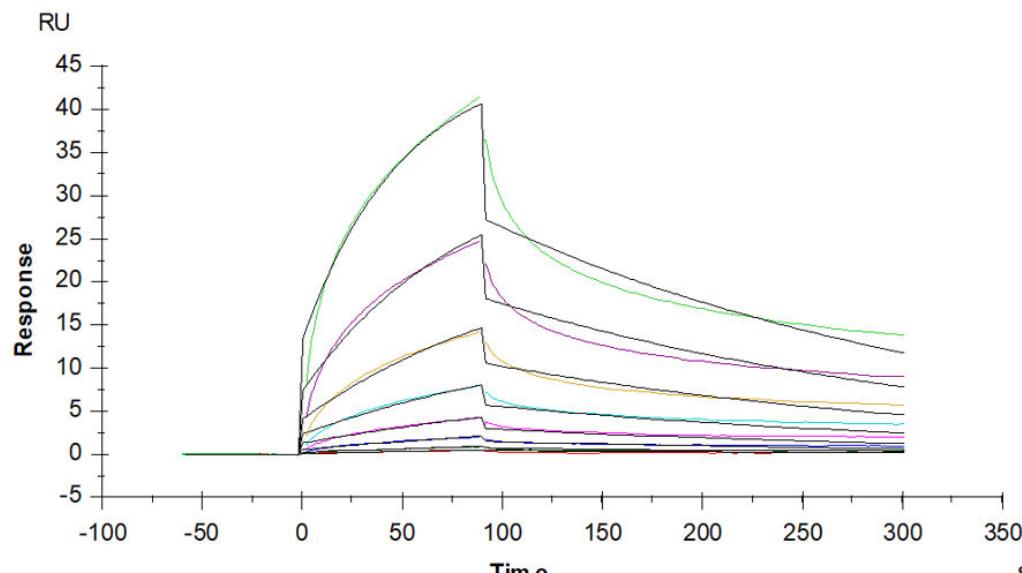
Cynomolgus GPRC5D, Flag,His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

## Bioactivity-SPR

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Anti-GPRC5D Antibody immobilized on CM5 Chip can bind Cynomolgus GPRC5D, Flag,His Tag (Cat. No. GPD-C52D3) with an affinity constant of 0.122  $\mu$ M as determined in a SPR assay (Biacore T200) (QC tested).

## Background

G-protein coupled receptor family C group 5 member D (GPRC5D) is a retinoic acid-inducible 40 kDa protein with seven transmembrane segments and a short N terminal extracellular region. Widely expressed in the peripheral system. Expression pattern is high in pancreas, medium in kidney, small intestine, spleen and testis, low in lung, colon, leukocyte, prostate and thymus and not detectable in brain, heart, liver, placenta, skeletal muscle and ovary.

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