

# Cynomolgus GPRC5D Protein, Flag,His Tag (Nanodisc)

Catalog # GPD-C82D4



BIOSYSTEMS  
**Acro**

## Application

- Cell based assay (FACS or functional assay)
- Affinity testing (SPR / BLI)
- Screening (ELISA)

## Synonyms

GPRC5D, G-protein coupled receptor family C group 5 member D

## Source

Nanodisc Cynomolgus GPRC5D Protein, Flag,His Tag (GPD-C82D4) 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

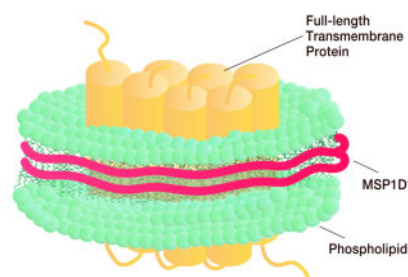
## Molecular Characterization



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 25 kDa and 37 kDa under reducing (R) condition (SDS-PAGE).

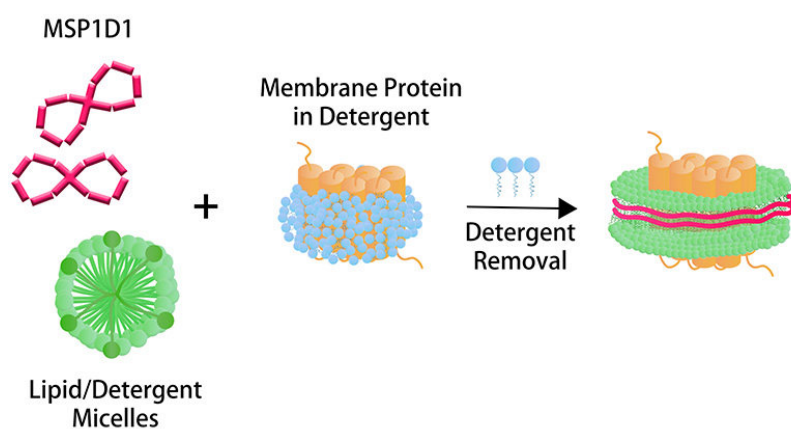
\*The isotype control of empty/mock nanodisc (Cat. No. [APO-H51H3](#)) is sold separately and not included in protein, you can follow [the link](#) for product information.

### • Structure



Nanodisc membrane protein is wrapped by a synthetic phospholipid bilayer membrane structure, composed of membrane scaffold proteins (MSPs) and phospholipids.

### • Synthesis Process



Nanodisc reconstitution is a self-assembly process that **starts from purified, detergent-solubilized membrane proteins** and reconstitutes them into synthetic phospholipid bilayers stabilized by MSP1D1 membrane scaffold protein. This creates a stable, detergent-free environment that preserves native conformation and biological activity, with excellent homogeneity and full compatibility with **cell-based assays such as FACS** and binding assays in antibody discovery and screening (ELISA),etc.

## Purity

>80% as determined by SDS-PAGE.

## Formulation

Supplied as 0.2  $\mu$ m filtered solution in 50 mM HEPES, 150 mM NaCl, pH7.5 with glycerol as protectant.

Contact us for customized product form or formulation.

## Shipping and Storage

**This product is supplied and shipped on dry ice.**

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

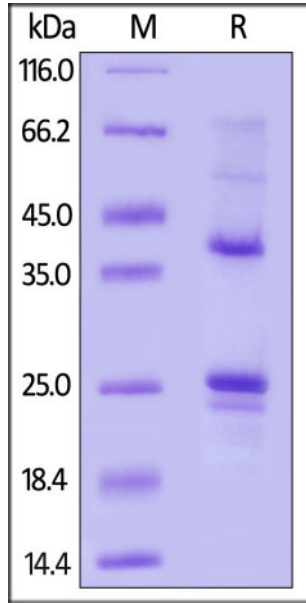
This product is stable after storage at:

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

## ACRO Quality Management System

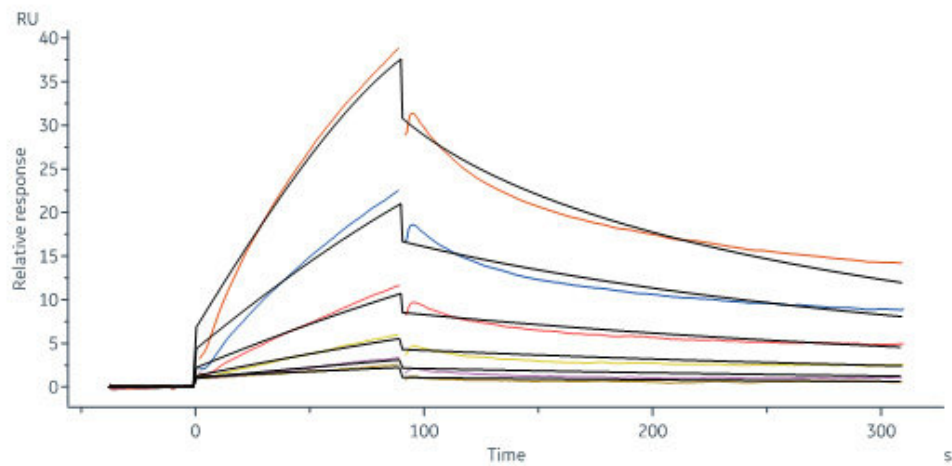
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

## SDS-PAGE



Cynomolgus GPRC5D Protein, 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 80%.

## Bioactivity-SPR



Anti-GPRC5D antibody immobilized on CM5 Chip can bind Cynomolgus GPRC5D Protein, Flag,His Tag (Cat. No. GPD-C82D4) with an affinity constant of 0.134  $\mu\text{M}$  as determined in a SPR assay (Biacore 8K) (QC tested).

## Background

An orphan G protein-coupled receptor with highly restricted expression in malignant plasma cells and hard keratinized tissues (hair/nail). This profile mitigates off-tumor toxicity, establishing GPRC5D as a breakthrough target for bispecific antibodies and CAR-T therapies in relapsed/refractory multiple myeloma.

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