

PE-Labeled Human GPRC5D Full Length Protein, Flag,His Tag (Nanodisc, Site-specific conjugation)

Catalog # GPD-HP2D3



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 PE-Labeled Human GPRC5D Full Length Protein, Flag,His Tag (GPD-HP2D3) is produced via site-specific conjugation of PE to Human GPRC5D Full Length Protein, His Tag under optimal conditions with a proprietary technology. Human GPRC5D Full Length Protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Tyr 2 - Cys 300 (Accession # [Q9NZD1-2](#)).

Predicted N-terminus: Asp

Molecular Characterization

Flag

Poly-His

GPRC5D (Tyr 2 - Cys 300)

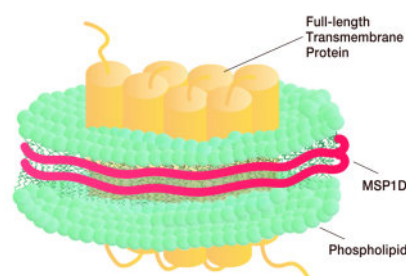
Q9NZD1-2

This protein carries a flag tag at the N-terminus, followed by a polyhistidine tag.

The protein has a calculated MW of 40.1 kDa.

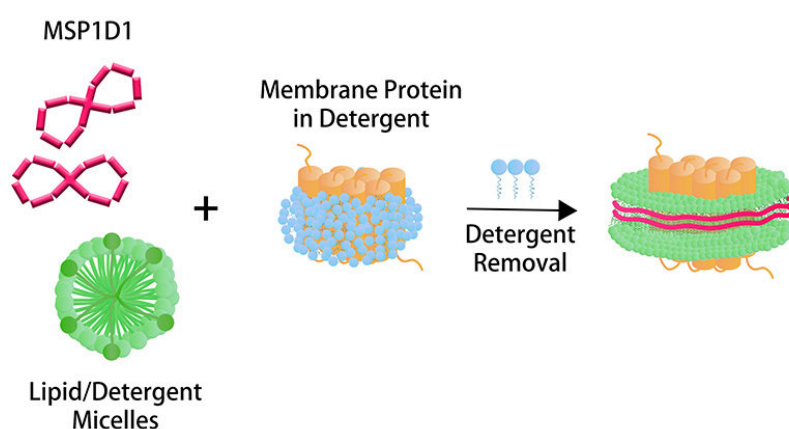
*The isotype control of empty/mock nanodisc (Cat. No. [APO-HP1E3](#)) is sold separately and not included in protein, you can follow [the link](#) for product information.

• 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.

Conjugate

PE

Excitation Wavelength: 488 nm / 561 nm

Emission Wavelength: 575 nm

Formulation

Supplied as 0.2 μ m filtered solution in PBS, 0.5% BSA, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Shipping and Storage

This product is supplied and shipped on dry ice.

Please protect from light and avoid repeated freeze-thaw cycles.

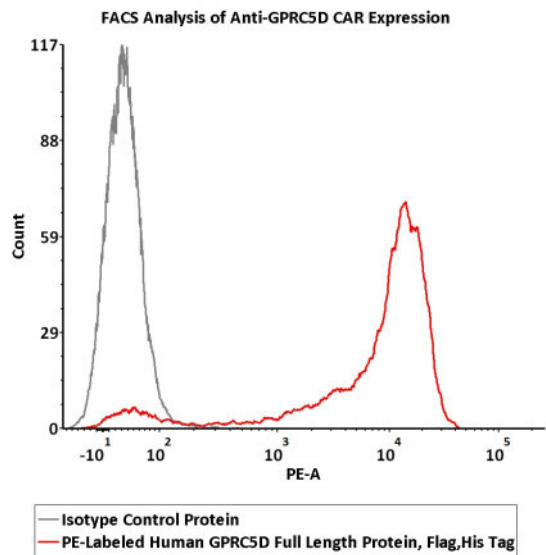
This product is stable after storage at:

- The product **MUST** be stored at -70°C or lower upon receipt;
- -70°C for 12 months under sterile conditions.

ACRO Quality Management System

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

Activity-Flow Cytometry



5e5 of Anti-GPRC5D CAR-293 cells were stained with 100 μL of 1:10 dilution (10 μL stock solution in 100 μL FACS buffer) of PE-Labeled Human GPRC5D Full Length Protein, Flag,His Tag (Cat. No. GPD-HP2D3) and isotype control protein respectively. PE signal was used to evaluate the binding activity (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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