



Synonym

GPRC5D

Source

FITC-Labeled Human GPRC5D Protein, Flag,His Tag(GPD-HF2D7) 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

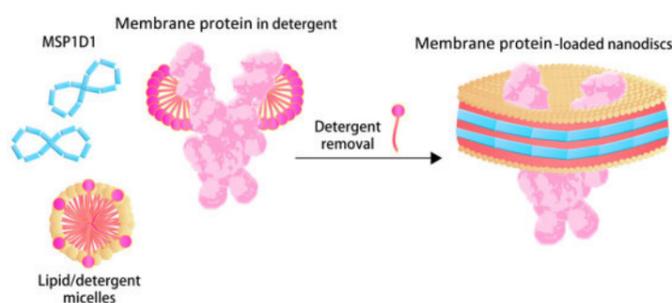
Molecular Characterization



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

The protein has a calculated MW of 51.8 kDa. The protein migrates as 19-27 kDa, 36-37 kDa and 66 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Nanodiscs are a new class of model membranes that are being used to solubilize and study a range of integral membrane proteins and membrane-associated proteins. The Nanodisc bilayer is bounded by a membrane scaffold protein (MSP1D1) coat that confers enhanced stability and a narrow particle size distribution.



The nanodisc assembles from a mixture of full length membrane protein in detergent, phospholipid micelles and membrane scaffold protein(MSP1D1) upon removal of the detergent.

Conjugate

FITC

Excitation source: 488 nm spectral line, argon-ion laser

Excitation Wavelength: 488 nm

Emission Wavelength: 535 nm

Labeling

The primary amines in the side chains of lysine residues and the N-terminus of the protein are conjugated with FITC using standard chemical labeling method. The residual FITC is removed by molecular sieve treatment during purification process.

Endotoxin

Purity

>80% as determined by SDS-PAGE.

Formulation

Supplied as 0.2 μ 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

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

Storage

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 3 months under sterile conditions.

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

Discounts, Gifts,
and more!



FITC-Labeled Human GPRC5D Protein, Flag,His Tag (Nanodisc)

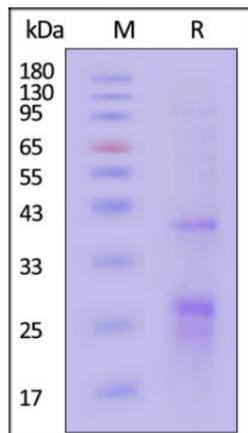
Catalog # GPD-HF2D7



BIOSYSTEMS
Acro
Surprise Inside!

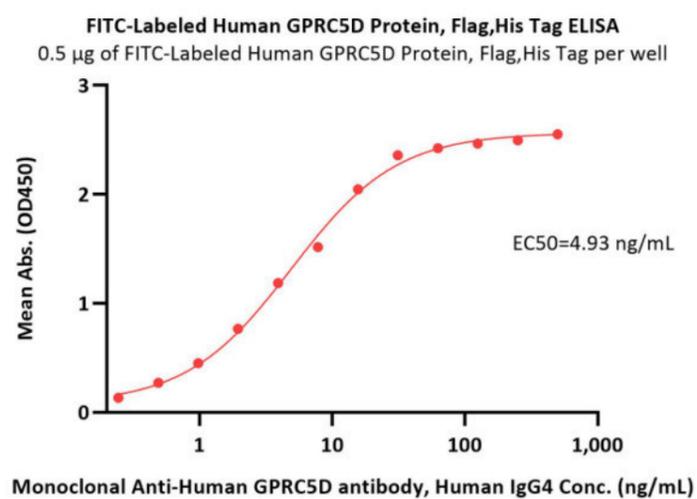
Less than 1.0 EU per μg by the LAL method.

SDS-PAGE



FITC-Labeled Human 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% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-ELISA



Immobilized FITC-Labeled Human GPRC5D Protein, Flag,His Tag (Cat. No. GPD-HF2D7) at 5 $\mu\text{g}/\text{mL}$ (100 $\mu\text{L}/\text{well}$) can bind Monoclonal Anti-Human GPRC5D antibody, Human IgG4 with a linear range of 0.2-16 ng/mL (QC tested).

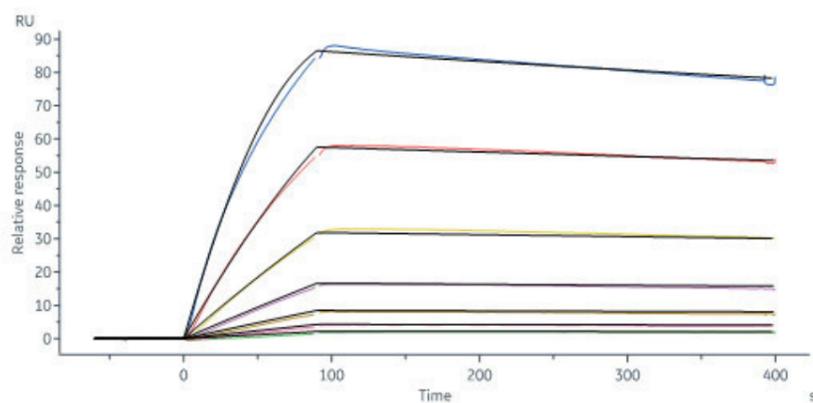
Bioactivity-SPR

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12/18/2023



Anti-GPRC5D Antibody, Human IgG4 captured on Protein A Chip can bind FITC-Labeled Human GPRC5D Protein, Flag,His Tag (Cat. No. GPD-HF2D7) with an affinity constant of 9.29 nM as determined in a SPR assay (Biacore 8K) (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 if you have any question on this product.

Discounts, Gifts,
and more!

