



Synonym

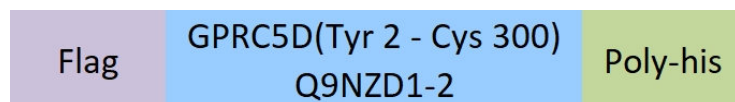
GPRC5D,G-protein coupled receptor family C group 5 member D

Source

FITC-Labeled Human GPRC5D Full Length Protein, Flag,His Tag(GPD-HF2D6) is expressed from human 293 cells (HEK293). It contains AA Tyr 2 - Cys 300 (Accession # [Q9NZD1-2](#)).

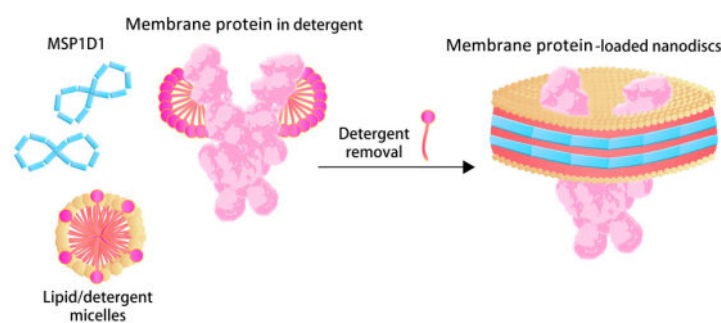
Predicted N-terminus: Asp

Molecular Characterization



This protein carries a Flag tag at the N-terminus and a polyhistidine tag at the C-terminus. The protein has a calculated MW of 37.9 kDa.

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

Less than 1.0 EU per µg by the LAL method.

*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.

Purity

>90% as determined by SDS-PAGE.

Formulation

Supplied as 0.2 µm filtered solution in 20 mM HEPES, 150 mM NaCl, pH7.5 with trehalose 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.

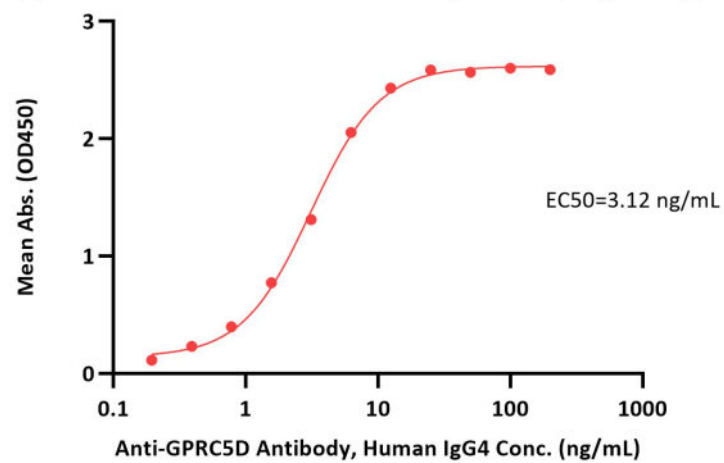
Discounts, Gifts,
and more!





Bioactivity-ELISA

FITC-Labeled Human GPRC5D Full Length Protein, Flag,His Tag ELISA
0.1 µg of FITC-Labeled Human GPRC5D Full Length Protein, Flag,His Tag per well



Immobilized FITC-Labeled Human GPRC5D Full Length Protein, Flag,His Tag (Cat. No. GPD-HF2D6) at 1 µg/mL (100 µL/well) can bind Anti-GPRC5D Antibody, Human IgG4 with a linear range of 0.2-6 ng/mL (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.

Clinical and Translational Updates

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