

Synonym

GPRC5D

Source

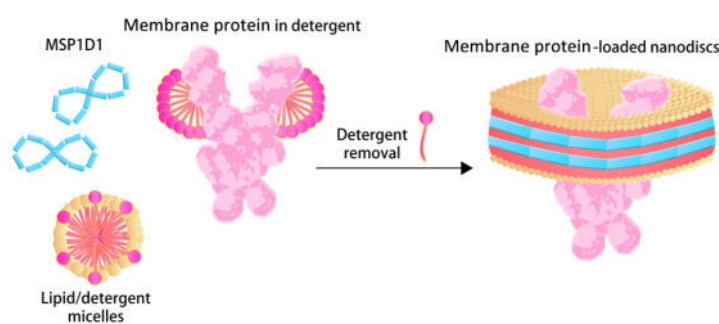
Cynomolgus GPRC5D Protein, Flag,His Tag(GPD-C82D4) is expressed from human 293 cells (HEK293). It contains AA Tyr 2 - Phe 192 & Glu 197 - Leu 262 (Accession # [A0A2K5W6I7-1](#)).

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 37 kDa under reducing (R) condition (SDS-PAGE). The membrane scaffold protein (MSP1D1) has calculated MW of 24.7 kDa, and it migrates as 25 kDa under reducing (R) condition (SDS-PAGE).

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.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>80% as determined by SDS-PAGE.

Formulation

Supplied as 0.2 µm 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 as sterile liquid solution with dry ice, please inquire the shipping cost.

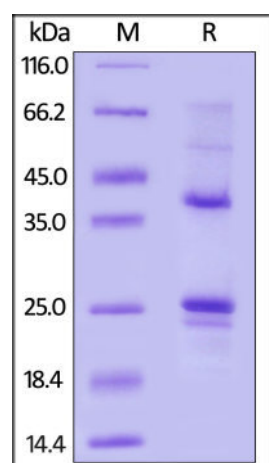
Storage

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

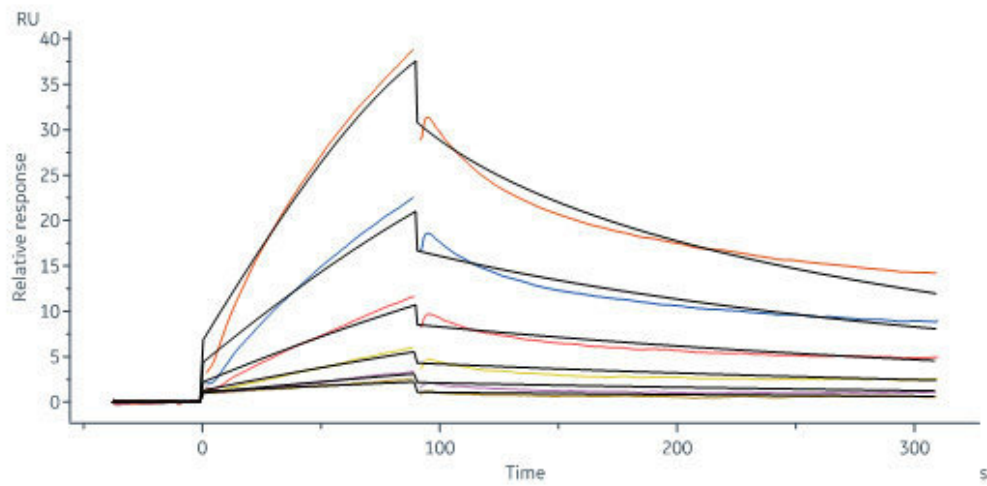
- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

*The 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.

SDS-PAGE

Cynomolgus GPRC5D Protein, Flag,His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight 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

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.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.