

Biotinylated Human GPR75 Full Length Protein, Flag,His,Avitag™ (Detergent)

Catalog # GPD-H82D8



BIOSYSTEMS
Acro

Application

- Immunization
- Affinity testing (SPR / BLI)
- Screening ([ELISA](#))

Synonyms

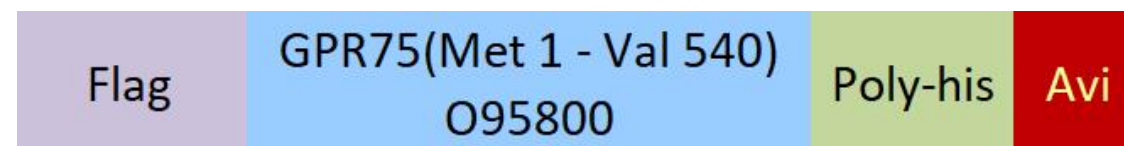
GPRchr2, WI31133

Source

Detergent Biotinylated Human GPR75 Full Length Protein, Flag,His,Avitag (GPD-H82D8) is expressed from human 293 cells (HEK293). It contains AA Met 1 - Val 540 (Accession # [O95800](#)).

Predicted N-terminus: Asp

Molecular Characterization

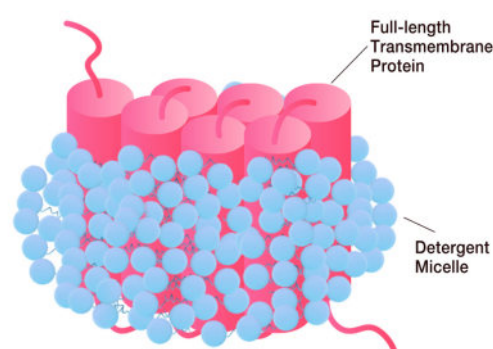


This protein carries a Flag tag at the N-terminus and a polyhistidine tag at the C-terminus followed by an Avi tag (Avitag™).

The protein has a calculated MW of 80.7 kDa.

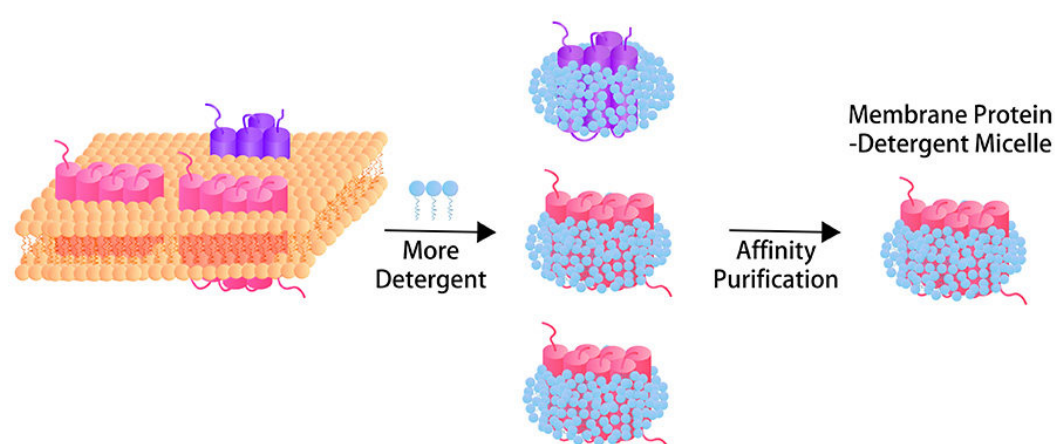
*The DDM/CHS buffer (Cat. No. [DC-11](#)) is sold separately and not included in protein, you can follow [the link](#) for product information.

• Structure



Each full-length transmembrane protein is encapsulated by detergent micelle.

• Synthesis Process



Through **mild detergent micelle extraction**, dedicated solubilization, and stringent affinity purification, we maximally retain the native transmembrane conformation of full-length transmembrane proteins throughout downstream purification. This workflow yields purified, detergent-solubilized proteins free of unrelated membrane impurities and exogenous scaffold proteins, with **exceptional purity, accurate quantitation**, and well-preserved biological activity—ideal for immunization, binding assays in antibody discovery and screening (ELISA) and affinity testing (SPR and BLI), etc.

Conjugate

Biotin-labeled

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the SABA assay / HABA assay / binding ELISA.

Formulation

This product is not suitable for cell based experiments due to cytotoxicity of DDM.
DDM and CHS are INDISPENSABLE to keep membrane protein soluble and active, under no circumstances should you remove DDM and CHS.
DDM/CHS buffer (DC-11) is sold separately and not included in protein, and please contact us if you need the buffer.
If glycerol is not compatible with your application, remove glycerol just before the immediate experiment, and NEVER store glycerol-free protein solution.

Supplied as 0.2 µm filtered solution in 50 mM HEPES, 150 mM NaCl, DDM, CHS, 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.

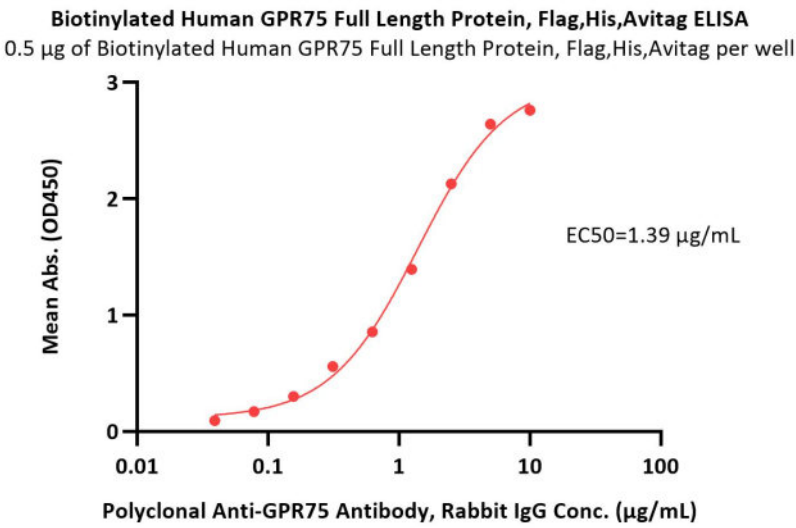
This product is stable after storage at:

- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 6 months under sterile conditions.

ACRO Quality Management System

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

Bioactivity-ELISA



Immobilized Biotinylated Human GPR75 Full Length Protein, Flag,His,Avitag (Cat. No. GPD-H82D8) at 5 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Polyclonal Anti-GPR75 Antibody, Rabbit IgG with a linear range of 0.039-2.5 µg/mL (QC tested).

Background

An orphan GPCR recently implicated by large-scale exome sequencing as a critical regulator of energy balance and obesity. Loss-of-function variants confer protection against weight gain, making GPR75 a high-value, genetically validated target for novel anti-obesity therapeutics and metabolic syndrome intervention.



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