

Human GPR75 Full Length Protein, Flag,His Tag (Detergent)

Catalog # GP5-H52D3



BIOSYSTEMS
Acro

Application

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

Synonym

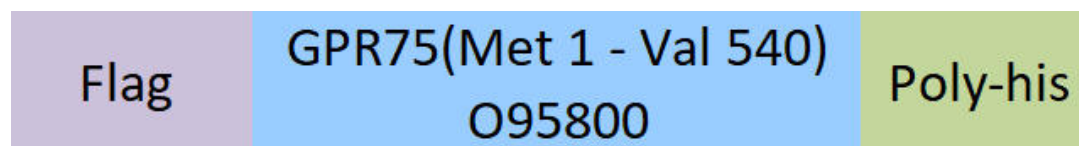
GPRchr2, WI31133

Source

Detergent Human GPR75 Full Length Protein, Flag,His Tag (GP5-H52D3) is expressed from human 293 cells (HEK293). It contains AA Met 1 - Val 540 (Accession # [O95800](#)).

Predicted N-terminus: Asp

Molecular Characterization

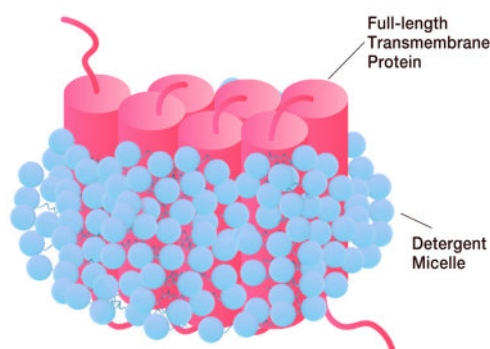


This protein carries a flag tag at the N-terminus and a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 78.4 kDa.

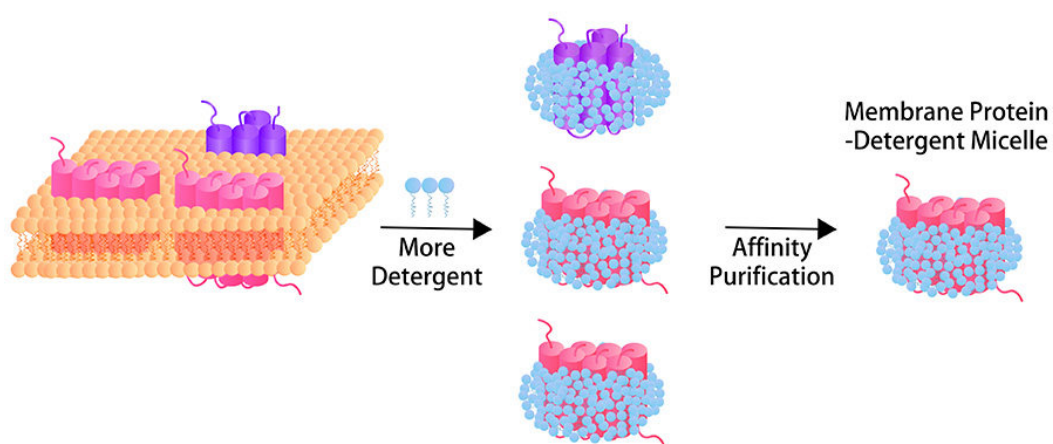
*The DDM/CHS buffer (Cat. No. [DC-11](#)) is sold separately and not included in protein, you can follow [the link](#) for product information.

• 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.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

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

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

Storage

Please avoid repeated freeze-thaw cycles.

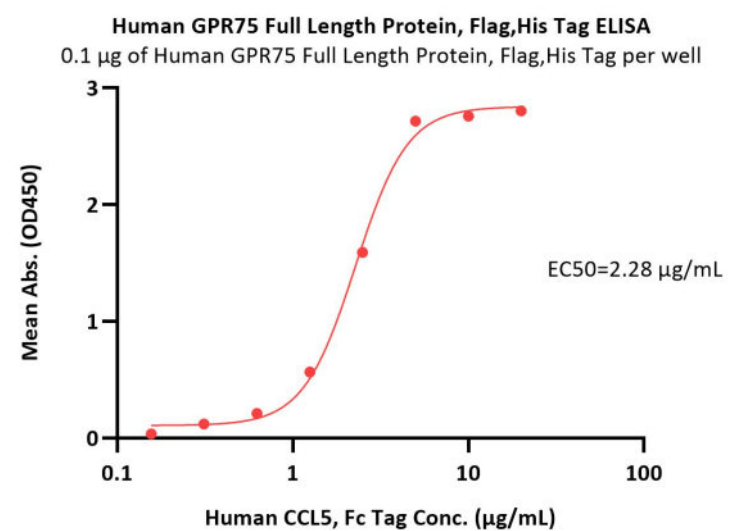
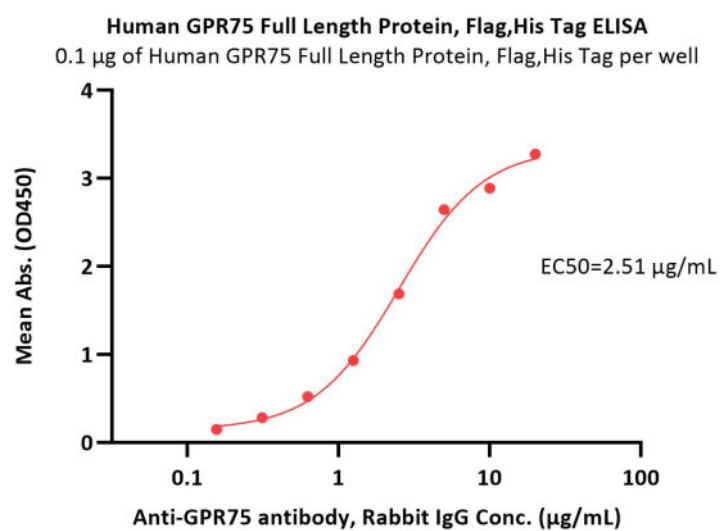
This product is stable after storage at:

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

ACRO Quality Management System

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

Bioactivity-ELISA



Immobilized Human GPR75 Full Length Protein, Flag,His Tag (Cat. No. GP5-H52D3) at 1 µg/mL (100 µL/well) can bind Anti-GPR75 antibody, Rabbit IgG with a linear range of 0.2-5 µg/mL (QC tested).

Immobilized Human GPR75 Full Length Protein, Flag,His Tag (Cat. No. GP5-H52D3) at 1 µg/mL (100 µL/well) can bind Human CCL5, Fc Tag (Cat. No. CC5-H5251) with a linear range of 0.2-5 µg/mL (Routinely 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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