

Human GPR56 Full Length Protein (VLP)

Catalog # GP6-H52P7



BIOSYSTEMS
Acro

Surprise Inside!

Application

- Immunization
- Cell based assay (FACS or functional assay)
- Screening ([ELISA](#))

Synonym

BFPP, BPPR, GPR56, TM7LN4, TM7XN1

Source

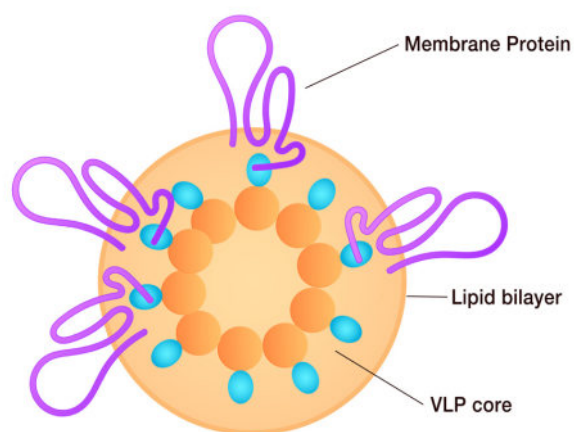
Human GPR56 Full Length Protein-VLP (GP6-H52P7) is expressed from human 293 cells (HEK293). It contains AA Arg 26 - Ile 693 (Accession # [Q9Y653-1](#)).

Predicted N-terminus: Arg 26

Molecular Characterization

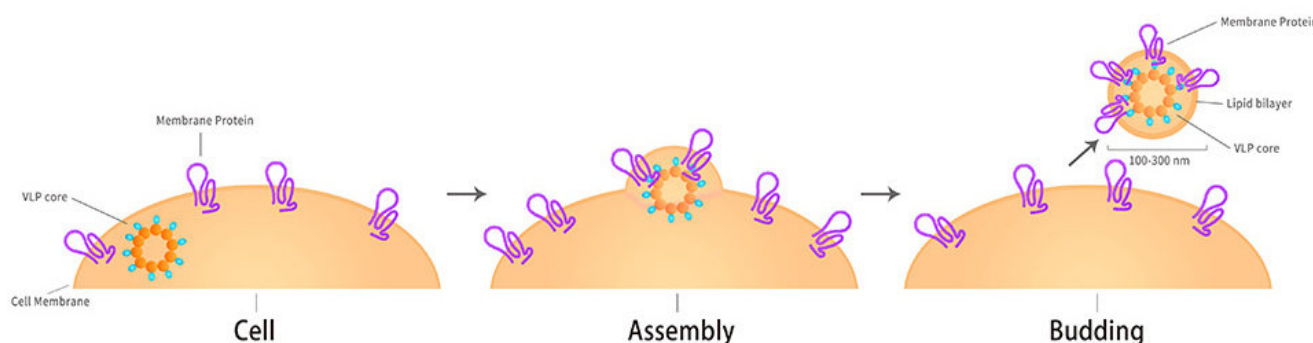
*The isotype control of empty/mock VLP (Cat. No. [VLP-N5213](#)) is sold separately and not included in protein, you can follow [the link](#) for product information.

• Structure



Virus-like particles (VLPs) are protein particles that mimic the shape of viruses but lack a viral genome, and incorporating transmembrane proteins on the external surface.

• Synthesis Process



Envelope virus-like particles (eVLPs) are produced by **co-expressing target membrane proteins with viral structural proteins in mammalian cells**, enabling native embedding of membrane proteins into the lipid bilayer during VLP budding. This approach preserves authentic conformation, post-translational modifications, and orientation, while creating a completely detergent-free environment with repetitive multivalent display and **strong immunogenicity** making them ideal for immunization, binding assays in antibody discovery and screening (ELISA), and cell-based assays such as FACS, etc.

Endotoxin

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

Purity

>95% as determined by SEC-HPLC.

Formulation

The VLPs are highly immunogenic, so the immunization strategy should be optimized (antigen dose, regimen and adjuvant).

Supplied as 0.2 μm filtered solution in PBS, Arginine, pH7.4 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 avoid repeated freeze-thaw cycles.

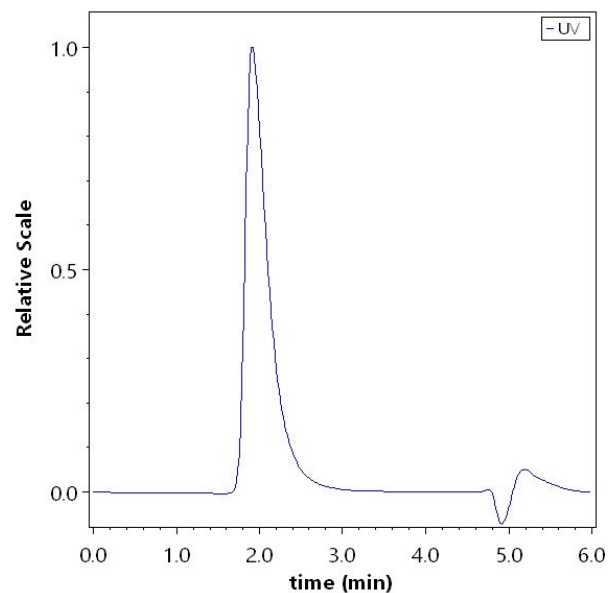
This product is stable after storage at:

- The product **MUST** be stored at -70°C or lower upon receipt;
- -70°C for 12 months under sterile conditions.

ACRO Quality Management System

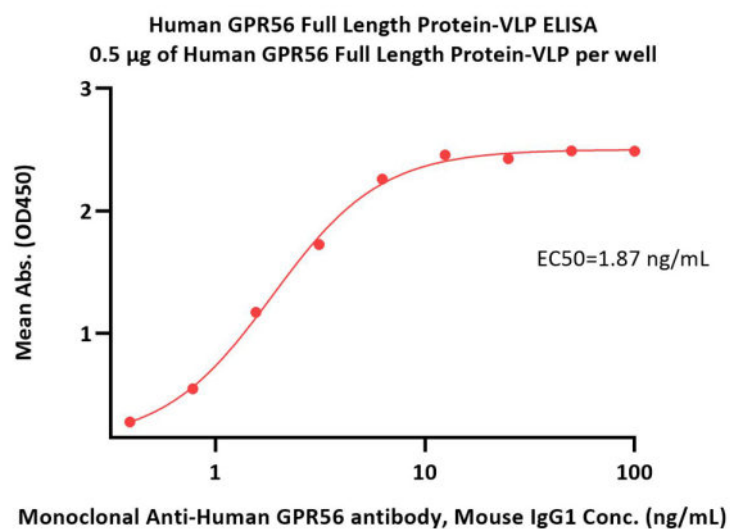
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SEC-HPLC



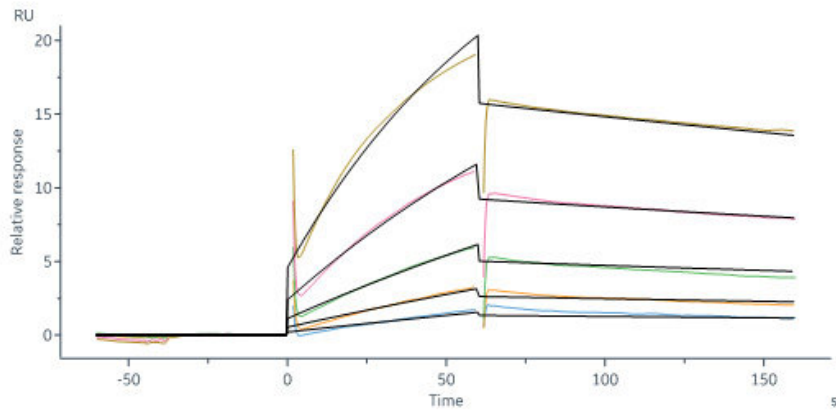
The purity of Human GPR56 Full Length Protein-VLP (Cat. No. GP6-H52P7) was greater than 95% as determined by SEC-HPLC.

Bioactivity-ELISA



Immobilized Human GPR56 Full Length Protein-VLP (Cat. No. GP6-H52P7) at $5\ \mu\text{g/mL}$ ($100\ \mu\text{L/well}$) can bind Monoclonal Anti-Human GPR56 antibody, Mouse IgG1 with a linear range of $0.4\text{-}6\ \text{ng/mL}$ (QC tested).

Bioactivity-SPR



Human GPR56 Full Length Protein-VLP (Cat. No. GP6-H52P7) captured on CM5 Chip via Anti-Human GPR56 antibody can bind Anti-Human GPR56 with an affinity constant of 15.7 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).

Background

GPR56 is an adhesion GPCR critical for cortical development and myelin homeostasis. It is a marker of cytotoxic T cells and certain leukemic stem cells. GPR56 plays complex roles in cancer, acting as a tumor suppressor in melanoma but an oncogenic driver in glioblastoma and colorectal cancer.

Discounts, Gifts,
and more!



www.acrobiosystems.com

