

Fluorescent Human AQP4 Full Length Protein (VLP)

Catalog # AQ4-H52P3



BIOSYSTEMS
Acro

Surprise Inside!

Synonym

MIWC, WCH4, hAQP4

Source

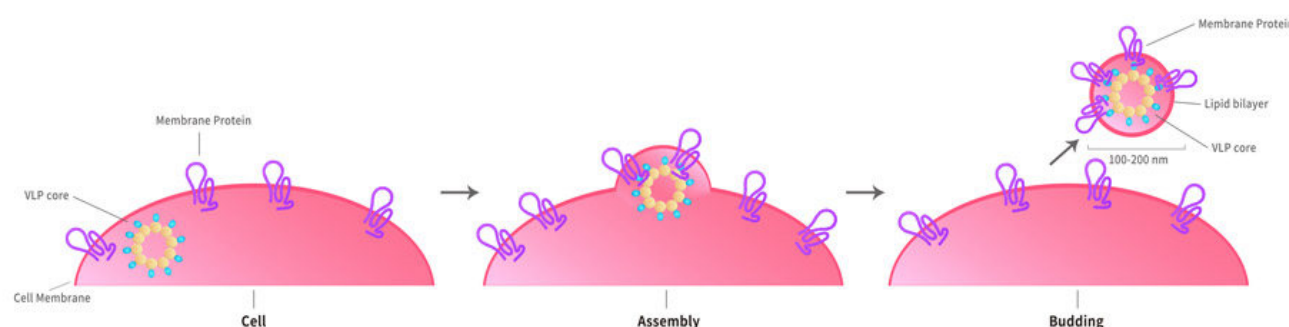
Fluorescent Human AQP4 Full Length Protein (VLP) (AQ4-H52P3) is expressed from human 293 cells (HEK293). It contains AA Ser 2 - Val 323 (Accession # [P55087](#)).

Predicted N-terminus: Met

Molecular Characterization

This protein carries a GFP tag.

Virus-like particles (VLPs) are formed by self-assembly of capsid proteins from viruses. Membrane Proteins can be constituted in-situ with VLPs produced from HEK293 cell cultures. These VLPs concentrate conformationally intact membrane proteins directly on the cell surface and produce soluble, high-concentration proteins perfect for immunization and antibody screening.



The VLPs provide the display of properly folded membrane proteins in their native cellular membrane in a compact size of 100~300 nm diameter (similar to the size of most viruses) making it optimal targets for dendritic cells in vivo and surface attachment for phage display.

Conjugate

GFP

Excitation source: 488 nm spectral line, argon-ion laser

Excitation Wavelength: 488 nm

Emission Wavelength: 530 nm

Endotoxin

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

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 protect from light and avoid repeated freeze-thaw cycles.

This product is stable after storage at:

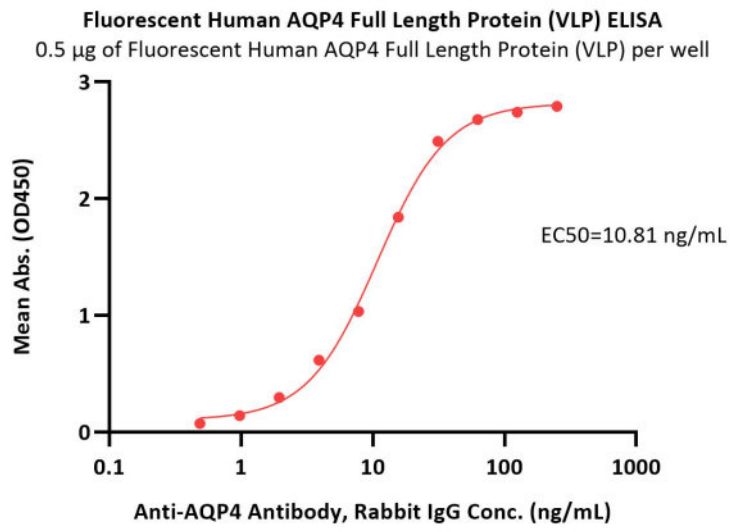
- The product **MUST** be stored at -70°C or lower upon receipt;
- -70°C for 12 months under sterile conditions.

ACRO Quality Management System

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

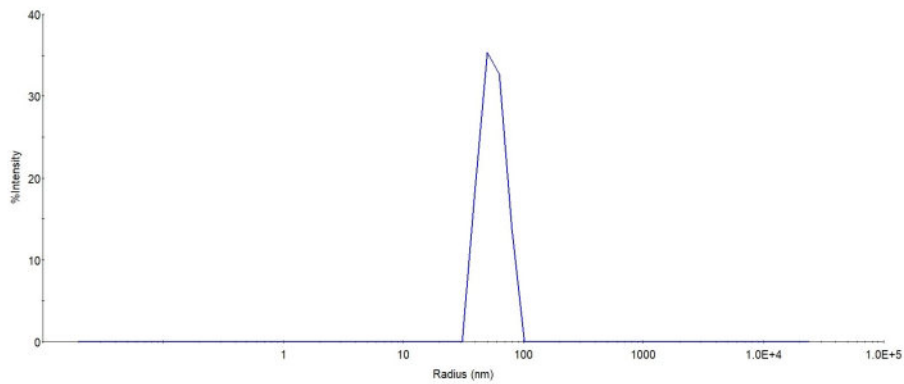
*The isotype control of empty/mock VLP (Cat. No. [VLP-NF2P4](#)) is sold separately and not included in protein, you can follow [the link](#) for product information.

Bioactivity-ELISA



Immobilized Fluorescent Human AQP4 Full Length Protein (VLP) (Cat. No. AQ4-H52P3) at 5 µg/mL (100 µL/well) can bind Anti-AQP4 Antibody, Rabbit IgG with a linear range of 0.5-31 ng/mL (QC tested).

Identity-DLS



The mean peak Radius of VLP is 50-70 nm with more than 95% intensity as determined by dynamic light scattering (DLS).

Background

Aquaporin-4, the predominant water channel in the central nervous system, concentrated on astrocytic end-feet at the blood-brain barrier. It is the primary autoantigen in Neuromyelitis Optica Spectrum Disorder (NMOSD). Therapeutic monoclonal antibodies and inhibitors aim to block pathogenic autoantibody binding and complement activation.

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