

### Synonym

F2R,coagulation factor II thrombin receptor,CF2R, HTR, PAR-1, PAR1, TR

### Source

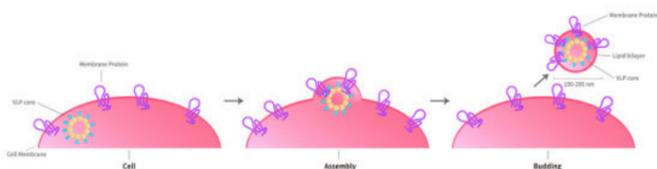
Fluorescent Human PAR1 Full Length Protein (VLP)(PA1-HF2G5) is expressed from human 293 cells (HEK293). It contains AA Ser 42 - Thr 425 (Accession # [P25116-1](#) ).

Predicted N-terminus: Asp

### Molecular Characterization

This protein carries a GFP tag

Virus-like particles(VLPs) are formed by self-assembly of envelop/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.

### 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 as sterile liquid solution with dry ice, please inquire the shipping cost.*

### Storage

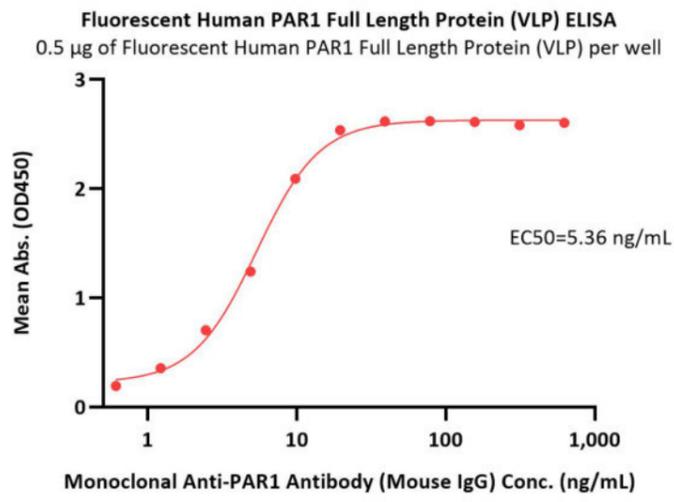
*Please protect from light and avoid repeated freeze-thaw cycles.*

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.

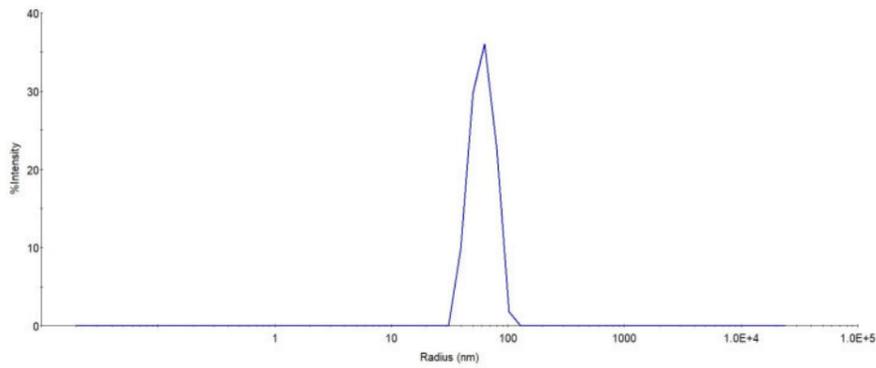
\*The isotype control of empty/mock VLP (Cat. No. [VLP-NF2P4](#)) is sold separately and not included in protein, you can follow [this link](#) for product information.

### Bioactivity-ELISA



Immobilized Fluorescent Human PAR1 Full Length Protein (VLP) (Cat. No. PA1-HF2G5) at 5 µg/mL (100 µL/well) can bind Monoclonal Anti-PAR1 Antibody (Mouse IgG) with a linear range of 0.6-10 ng/mL (QC tested).

**Identity-DLS**



The mean peak Radius of VLP is 55-75 nm with more than 95% intensity as determined by dynamic light scattering (DLS).

**Background**

Coagulation factor II receptor is a 7-transmembrane receptor involved in the regulation of thrombotic response. Proteolytic cleavage leads to the activation of the receptor. F2R is a G-protein coupled receptor family member. Alternative splicing results in multiple transcript variants.

**Clinical and Translational Updates**

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.