



Synonym

CNR2,cannabinoid receptor 2,CB2,CX5,CB-2,hCB2

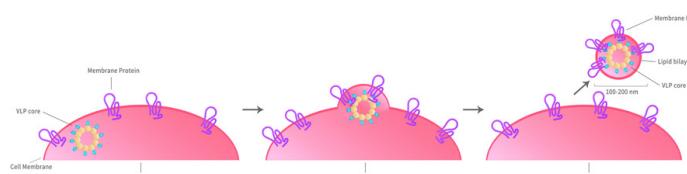
Source

Human CNR2 Full Length Protein (VLP)(CN2-H52P6) is expressed from human 293 cells (HEK293). It contains AA Met 1 - Cys 360 (Accession # [P34972-1](#)).

Predicted N-terminus: Asp

Molecular Characterization

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.



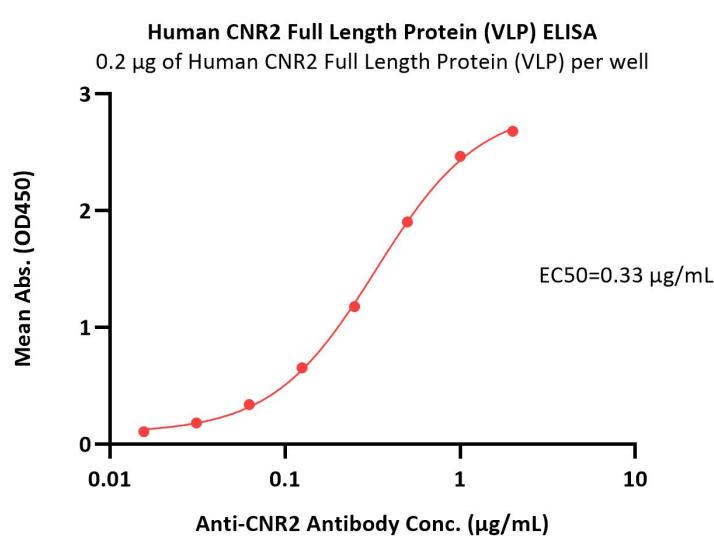
The VLPs provide the display of properly folded membrane proteins in their native cellular membrane in a compact size of 100~300 nm diameter (similar to the size of most viruses) making it optimal targets for dendritic cells *in vivo* and surface attachment for phage display.

Endotoxin

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

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

Bioactivity-ELISA



Immobilized Human CNR2 Full Length Protein (VLP) (Cat. No. CN2-H52P6) at 2 $\mu\text{g}/\text{mL}$ (100 $\mu\text{L}/\text{well}$) can bind Anti-CNR2 Antibody with a linear range of 0.02-1 $\mu\text{g}/\text{mL}$ (QC tested).

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.

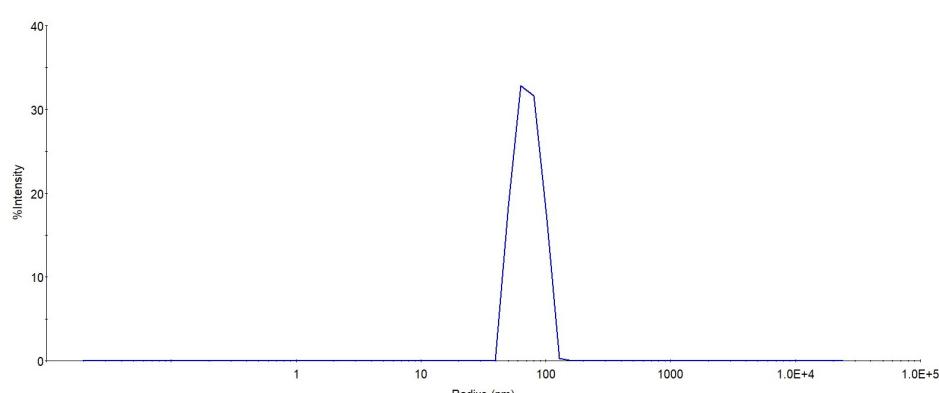
This product is stable after storage at:

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

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**Identity-DLS**

The mean peak Radius of VLP is 60-85 nm with more than 95% intensity as determined by dynamic light scattering (DLS).

Background

CNR2 (also known as cannabinoid receptor type 2, CB₂) is a G protein-coupled receptor from the cannabinoid receptor family that in humans is encoded by the CNR2 gene. It is closely related to the cannabinoid receptor type 1 (CB₁), which is largely responsible for the efficacy of endocannabinoid-mediated presynaptic-inhibition, the psychoactive properties of tetrahydrocannabinol (THC), the active agent in cannabis, and other phytocannabinoids (plant cannabinoids). The principal endogenous ligand for the CB₂ receptor is 2-Arachidonoylglycerol (2-AG).

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