

Synonym

CD37, Tspan-26, TSPAN26

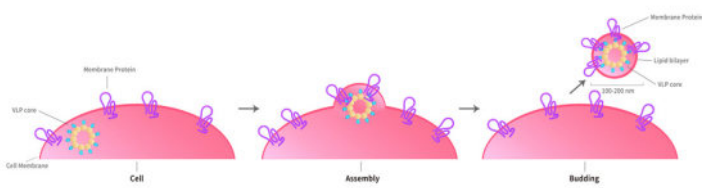
Source

Human CD37 Full Length Protein (VLP)(CD7-H52P4) is expressed from human 293 cells (HEK293). It contains AA Met 1 - Arg 281 (Accession # [P11049](#)).

Predicted N-terminus: Met 1

Molecular Characterization

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.

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 with dry ice, please inquire the shipping cost.

Storage

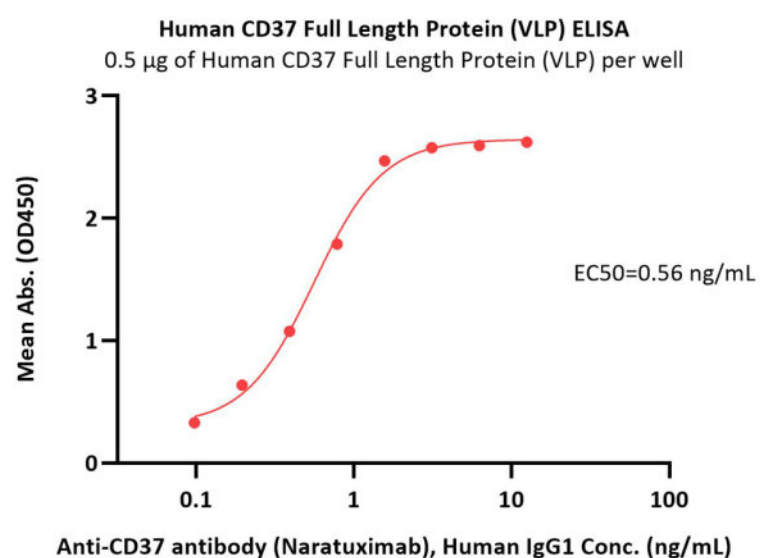
Please avoid repeated freeze-thaw cycles.

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.

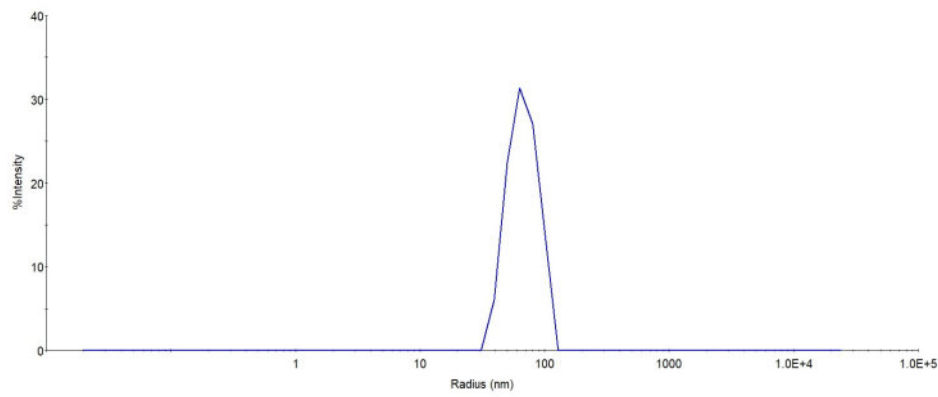
*The isotype control of empty/mock VLP (Cat. No. [VLP-N5213](#)) is sold separately and not included in protein, you can follow [this link](#) for product information.

Bioactivity-ELISA



Immobilized Human CD37 Full Length Protein (VLP) (Cat. No. CD7-H52P4) at 5 $\mu\text{g}/\text{mL}$ (100 $\mu\text{L}/\text{well}$) can bind Anti-CD37 antibody (Naratuximab), Human IgG1 with a linear range of 0.1-0.8 ng/mL (QC tested).

Identity-DLS



The mean peak Radius of VLP is 50-80 nm with more than 95% intensity as determined by dynamic light scattering (DLS).

Background

Leukocyte antigen CD37 (CD37) is also known as Tetraspanin-26 (Tspan-26) and TSPAN26, which is a member of the transmembrane 4 superfamily or tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. The proteins encoded by CD37 gene mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. CD37 is a cell surface glycoprotein that is known to complex with integrins and other transmembrane 4 superfamily proteins. CD37 may play a role in T-cell-B-cell interactions.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.