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Datasheet for ABIN7448168 VLP Control protein-VLP (Biotin)

Image



Overview

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Quantity:	100 μL
Target:	VLP Control
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	VLP
Purification tag / Conjugate:	Biotin
Application:	ELISA, Functional Studies (Func), Immunogen (Imm), Surface Plasmon Resonance (SPR)

Product Details

Purpose:	Biotinylated Human VLP Control
Characteristics:	Recombinant Biotinylated Human VLP Control is expressed from HEK293. Biotinylated Human VLP Control is pure biotinylated viral protein particle structure without the displayed proteins, which is pure viral protein particle structure without the displayed proteins. Biotinylated Human VLP Control can be used as isoytype control for VLPs displaying membrane proteins in various applications.
Purity:	> 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per μg by the LAL method.
Target Details	
Torgot:	VI P Control

Target:

VLP Control

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Background:

VLPs are formed by spontaneous interaction between one or more viral structural capsid proteins to form the final structure. VLPs are structurally and visually similar to live viruses but lack either a complete virus genome or lack the entire virus genome[1]. The envelop VLP control is pure viral protein particle structure without the displayed proteins, which can be used as control for the activity assay of the envelope VLP display proteins.

Application Details

Application Notes:	 Antibody Discovery: Immunization, Screening, Functional Characterization Affinity determination: ELISA, SPR In vivo pharmacokinetic analysis CMC method development CAR-T Positive Rate Detection Blood sample determination: ELISA
Comment:	Virus-like particles (VLPs) are formed from the outer capsid protein of a virus and are tiny nanoparticles formed by the automatic assembly of one or more capsid proteins. VLPs do not contain viral infectious genomes, so they are relatively safe during production operations. The SAMS [™] protein engineering platform has been used to express a series of biotinylated, non-biotinylated, and fluorescently-labeled VLP-displayed antigens. They are suitable for SPR, ELISA CAR-T positive rate detection, and other experimental scenarios.
	Virus-Like Particles (VLPs) are highly immunogenic, meaning that they can elicit a strong immune response in the host. VLPs are recognized by the immune system and are taken up by antigen-presenting cells (APCs) such as dendritic cells. Once taken up by APCs, VLPs are processed and presented to T cells, which can trigger the activation of B cells to produce antibodies against the displayed antigen. Because VLPs resemble the structure and composition of native viruses, they are highly effective at inducing both humoral and cellular immune responses.
	Generally, VLPs range in size from approximately 20 to 200 nanometers (nm). Compared to a cell-based immunization approach, their smaller size can optimize the immune response to target the specific antigen displayed on the surface of the engineered VLPs.
Restrictions:	For Research Use only

Handling

Format:

Liquid

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Handling		
Buffer:	Supplied as 0.22µm filtered solution in PBS (pH 7.4).	
Storage:	-80 °C	
Storage Comment:	Valid for 12 months from date of receipt when stored at -80°C.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.	
Expiry Date:	12 months	

Images



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 1. The purity of Biotinylated Human VLP Control is greater than 95 % as determined by SEC-HPLC.

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