



## Recombinant SARS-CoV-2 VLP (SEM) (DAG-WT374)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

Purity       > 80% , as determined by SDS-PAGE         Conjugate       Unconjugated         Applications       Immunoassays         Format       Liquid         Concentration       Batch dependent - please inquire should you have specific requirements         Size       100 μg, 1 mg         Buffer       20mM Tris-Cl, pH7.9, 100mM NaCl and 0.5mM EDTA         Preservative       None         Storage       Store at -20°C to -80°C	Product Overview	The virus-like particles (VLPs) of SARS-CoV-2 were expressed in Sf21 cells, assembled with the spike (S, Flag-tagged), envelope (E) and membrane (M) proteins of SARS-CoV-2. The VLPs were purified by a combination of gradient centrifugation and chromatographic methods
Applications       Immunoassays         Format       Liquid         Concentration       Batch dependent - please inquire should you have specific requirements         Size       100 μg, 1 mg         Buffer       20mM Tris-Cl, pH7.9, 100mM NaCl and 0.5mM EDTA         Preservative       None	Purity	> 80% , as determined by SDS-PAGE
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## **BACKGROUND**

Introduction

The spike (S) glycoprotein of coronaviruses contains protrusions that will only bind to certain receptors on the host cell: they are essential for both host specificity and viral infectivity. The term 'peplomer' is typically used to refer to a grouping of heterologous proteins on the virus surface that function together. The spike (S) glycoprotein of coronaviruses is known to be essential in the binding of the virus to the host cell at the advent of the infection process. Most

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notable is severe acute respiratory syndrome (SARS). The severe acute respiratory syndrome-coronavirus (SARS-CoV) spike (S) glycoprotein alone can mediate the membrane fusion required for virus entry and cell fusion. It is also a major immunogen and a target for entry inhibitors. The SARS-CoV spike (S) protein is composed of two subunits; the S1 subunit contains a receptor-binding domain that engages with the host cell receptor angiotensin-converting enzyme 2 and the S2 subunit mediates fusion between the viral and host cell membranes. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity, during infection with SARS-CoV.

Keywords

SARS-CoV-2; COVID-19; Spike protein