

Recombinant SARS-CoV-2 Spike Glycoprotein (S1) protein, Fc-tagged

Cat. No. Spike-201V **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant SARS-CoV-2 Spike Glycoprotein (S1) protein (1-674aa) was fused to C-terminally tagged with a predominantly monomeric sheep Fc-tag and expressed in HEK293 cells and purified from culture supernatant by Protein G chromatography.
Species	SARS-CoV-2
Source	HEK293
ProteinLength	674
Description	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 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

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neutralizing-antibody and T-cell responses, as well as protective immunity, during infection with SARS-CoV.

Form Liquid. Dulbecco's phosphate buffered saline (DPBS) pH 7.4.

Storage -80 centigrade.

Shipping Dry Ice.

Warning Avoid multiple freeze-thaw cycles.

GENE INFORMATION

Gene Name Spike

Official Symbol Spike

Synonyms GU280_gp02

Gene ID 43740568

Protein Refseq YP_009724390.1

SDS-PAGE of Spike-201V Coomassie-stained SDS-PAGE showing purified SARS-CoV-2 Spike S1 protein.

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