

SARS-CoV-2 Spike S1 Protein (HEK293, His) V2

General Information

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| Protein Construction: | Gln14-Arg683 |
| Species: | SARS-COV-2 |
| Expression Host: | HEK293 Cells |
| Accession: | QHO60594.1 |
| Molecular Weight: | 76.1 kDa (Predicted); 115-140 kDa (Due to glycosylation) |

QC Testing

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| Biological Activity: | Immobilized SARS-COV-2 Spike S1, His Tag at 1 µg/ml (100 µl/well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC50 of 45.7 ng/ml determined by ELISA. |
| Purity: | > 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC |
| Endotoxin: | < 1.0 EU/µg of the protein as determined by the LAL method. |
| Formulation: | Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

The spike protein (S) of coronavirus (CoV) attaches the virus to its cellular receptor, angiotensin-converting enzyme 2 (ACE2). A defined receptor-binding domain (RBD) on S mediates this interaction. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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