

## Recombinant COVID-19 Spike S1+S2 ECD (HV69-70 deletion, Y144 deletion, N501Y, A570D, D614G, P681H, T716I, S982A, D1118H) protein(Met1-Pro1213), His-tagged

Cat. No. Spike-1291V Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant COVID-19 Spike Protein (S1+S2 ECD) (YP_009724390.1) (Met1-Pro1213(HV69-70 deletion, Y144 deletion, N501Y, A570D, D614G, P681H, T716I, S982A, D1118H)) was expressed in Insect Cells with a polyhistidine tag at the C-terminus.
<b>Species</b>	Sars-CoV-2
<b>Source</b>	Insect Cells
<b>ProteinLength</b>	Met1-Pro1213
<b>Form</b>	Lyophilized from sterile 20 mM Tris, 300 mM NaCl, 10 % glycerol, pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
<b>Bio-activity</b>	Measured by its binding ability in a functional ELISA. Immobilized Human ACE2 (mFc tag) at 2 µg/mL (100 µL/well) can bind SARS-CoV-2 (2019-nCoV) Spike S1+S2 ECD (HV69-70 deletion, Y144 deletion, N501Y, A570D, D614G, P681H, T716I, S982A, D1118H)-His, the EC50 of SARS-CoV-2 (2019-nCoV) Spike S1+S2 ECD (HV69-70 deletion, Y144 deletion, N501Y, A570D, D614G, P681H, T716I, S982A, D1118H)-His is 200-800 ng/mL.
<b>Molecular Mass</b>	The recombinant SARS-CoV-2 (2019-nCoV) Spike Protein (S1+S2 ECD(HV69-70

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deletion, Y144 deletion, N501Y, A570D, D614G, P681H, T716I, S982A, D1118H), His tag) consists of 1206 amino acids and predicts a molecular mass of 134.1 kDa.

**Endotoxin** < 1.0 EU per µg protein as determined by the LAL method.

**Purity** > 85 % as determined by SDS-PAGE.

**Storage** Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

**Reconstitution** It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

## GENE INFORMATION

**Gene Name** [S surface glycoprotein \[ Severe acute respiratory syndrome coronavirus 2 \]](#)

**Official Symbol** [Spike](#)

**Synonyms** Spike; S1 protein; Spike glycoprotein Subunit1; S glycoprotein Subunit1; Spike protein S1

**Gene ID** [43740568](#)

**Protein Refseq** [YP\\_009724390.1](#)

**UniProt ID** [P0DTC2](#)

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