

Recombinant COVID-19 Spike S1 (T19R, T95I, G142D, Y145H, E156G, 157-158 deletion, A222V, L452R, T478K, D614G, P681R) protein(Met1-Arg685), His-tagged

Cat. No. Spike-1233V Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant SARS-CoV-2 Spike S1 (YP_009724390.1, with mutations T19R, T95I, G142D, Y145H, E156G, 157-158 deletion, A222V, L452R, T478K, D614G, P681R) (Met1-Arg685) was expressed in HEK293 with a polyhistidine tag at the C-terminus. The mutations were identified in the SARS-CoV-2 variant (known as variant AY. 4.2) which emerged in the United Kingdom.

Species Sars-CoV-2

Source HEK293

ProteinLength Met1-Arg685

Form Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Molecular Mass The recombinant SARS-CoV-2 Spike S1 consists of 679 amino acids and predicts a molecular mass of 76.29 kDa. As a result of glycosylation, it migrates as an approximately 102.30 kDa band in SDS-PAGE under reducing conditions.

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

Purity > 95 % as determined by SDS-PAGE. > 95 % as determined by SEC-HPLC.

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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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