Recombinant COVID-19 Spike S1+S2 (LAL242-244 deletion, D80A, R246I, K417N, E484K, N501Y, D614G, A701V) protein(Met1-Pro1213), His&Avi-tagged, Biotinylated

Cat. No. Spike-1213V **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant SARS-CoV-2 Spike S1+S2 (YP_009724390.1, with mutations LAL242-244 deletion, D80A, R246I, K417N, E484K, N501Y, D614G, A701V) (Met1-Pro1213) was expressed in Insect Cells with a C-terminal polyhistidine tag followed by an AVI tag. The expressed protein was biotinylated in vivo by the Biotin-Protein ligase (BirA enzyme) which is co-expressed. The mutations were identified in the SARS-CoV-2 variant (known as B.1.351) which emerged in the South Africa.
Species	Sars-CoV-2
Source	Insect Cells
ProteinLength	Met1-Pro1213
Conjugation/Label	Biotin
Form	Lyophilized from sterile 20mM Tris, 300mM NaCl, 10% glycerol, pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Molecular Mass	The recombinant SARS-CoV-2 Spike S1+S2 consists of 1221 amino acids and predicts a molecular mass of 135.82 kDa.
Endotoxin	< 1.0 EU per μg protein as determined by the LAL method.

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Purity	> 90 % 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.
Conjugation	Biotin

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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