Active Recombinant SARS-CoV-2 Spike S1+S2 ECD (E154K, L452R, E484Q, D614G, P681R, E1072K, K1073R) Protein, His-tagged

Cat. No. S-409S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant SARS-CoV-2 Spike S1+S2 (YP_009724390.1, with mutations E154K, L452R, E484Q, D614G, P681R, E1072K, K1073R) (Met1-Pro1213) was expressed in insect cell with a polyhistidine tag at the C-terminus. The mutations were identified in the SARS-CoV-2 variant (known as B.1.617) which emerged in the India
Species	SARS-CoV-2
Source	Insect Cells
ProteinLength	1-1213
Predicted N Terminal	Val 16
Bio-activity	Immobilized ACE2 Protein, Human, Recombinant (mFc Tag) at 2 μg/mL (100 μL/well) can bind SARS-CoV-2 Spike S1+S2 (E154K, L452R, E484Q, D614G, P681R, E1072K, K1073R) Protein (ECD, His Tag), the EC50 of SARS-CoV-2 Spike S1+S2 (E154K, L452R, E484Q, D614G, P681R, E1072K, K1073R) Protein (ECD, His Tag) is 200-900 ng/mL.
Molecular Mass	The recombinant SARS-CoV-2 Spike S1+S2 consists of 1209 amino acids and predicts a molecular mass of 134.5 kDa.
Endotoxin	< 1.0 EU/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 to -80 centigrade. Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Lyophilized from sterile 20 mM Tris, 300 mM NaCl, 10 % glycerol, pH 8.5. Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.

GENE INFORMATION

Gene Name	S surface glycoprotein [Severe acute respiratory syndrome coronavirus 2]
Official Symbol	S
Synonyms	S; surface glycoprotein; spike glycoprotein; surface glycoprotein; structural protein; spike protein
Gene ID	43740568
mRNA Refseq	MN908947
Protein Refseq	YP_009724390
SDS-PAGE	

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