Recombinant COVID-19 BF.7 (Omicron) Spike S1+S2 trimer protein(Met1-Gln1208), His-tagged

Cat. No. Spike-1270V **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant SARS-CoV-2 (BF.7) Spike S1+S2 (YP_009724390.1, with mutations T19I, 24-26del, A27S, 69-70del, G142D, V213G, G339D, R346T, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452R, S477N, T478K, E484A, F486V, Q498R, N501Y, Y505H, D614G, H655Y, N679K, P681H, N764K, D796Y, F817P, A892P, A899P, A942P, Q954H, N969K, K986P, V987P and furin cleavage site mutants) expressed in HEK293 with the bacteriophage T4 fibritin and a polyhistidine tag at the C-terminus. The mutations were identified in the SARS-CoV-2 variant (known as variant BF.7).
Species	Sars-CoV-2
Source	HEK293
ProteinLength	Met1-Gln1208
Form	Lyophilized from sterile 25mM Sodium Citrate, 200mM NaCl, 0.02%tween80, pH 6.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	Immobilized human ACE2 protein (Fc tag) at 2 μg/mL (100 μL/well) can bind Recombinant SARS-CoV-2 BF.7 (Omicron) Spike S1+S2 trimer Protein (ECD, His Tag), the EC50 is 4-12 ng/mL.
Molecular Mass	The recombinant SARS-CoV-2 (BF.7) Spike S1+S2 consists of 1226 amino acids and

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	predicts a molecular mass of 136.21 kDa.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 90 % as determined by SDS-PAGE. > 95 % as determined by SEC-HPLC.
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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