

Recombinant COVID-19 (B.1.640.2) Spike S1+S2 trimer protein(Met1-Gln1208), His-tagged

Cat. No. Spike-1232V Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant SARS-CoV-2 (B.1.640.2) Spike S1+S2 (YP_009724390.1, with mutations P9L, E96Q, 136-144del, R190S, D215H, R346S, N394S, Y449N, E484K, F490S, N501Y, D614G, P681H, T859N, F817P, A892P, A899P, A942P, K986P, V987P and furin cleavage site mutants) was expressed in HEK293 with bacteriophage T4 fibrin and a polyhistidine tag at the C-terminus. The mutations were identified in the SARS-CoV-2 variant (known as variant B.1.640.2).
Species	Sars-CoV-2
Source	HEK293
ProteinLength	Met1-Gln1208
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	Immobilized ACE2 Protein, Human, Recombinant (mFc Tag) at 2 µg/mL (100 µL/well) can bind SARS-CoV-2 (B.1.640.2) Spike S1+S2 trimer Protein (ECD, His Tag), the EC50 is 4-15ng/mL.
Molecular Mass	The recombinant SARS-CoV-2 (B.1.640.2) Spike S1+S2 consists of 1222 amino acids and predicts a molecular mass of 135.30 kDa.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.

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Purity	> 95 % 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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