

Recombinant SARS-CoV Spike/S1 Protein (S1 Subunit, His Tag) Spike protein(Met1-Arg667), His-tagged

Cat. No. Spike-2417S Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant S1 subunit of SARS-CoV (isolate:WH20) spike (AAX16192.1) (Met1-Arg667) was expressed in Insect Cells with a C-terminal polyhistidine tag.
Species	SARS
Source	Insect Cells
ProteinLength	Met1-Arg667
Form	Lyophilized from sterile 20 mM Tris, 500 mM NaCl, 10 % glycerol, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	Measured by its binding ability in a functional ELISA. Immobilized human ACE2 protein (Fc tag) at 2µg/mL (100µL/well) can bind SARS-CoV Spike/S1 Protein (S1 Subunit, His Tag), the EC50 of SARS-CoV Spike/S1 Protein (S1 Subunit, His Tag) is 400-850 ng/mL.
Molecular Mass	The recombinant S1 subunit of SARS-CoV (isolate:WH20) spike comprises 665 amino acids and has a predicted molecular mass of 74.4 kDa. The apparent molecular mass of the protein is approximately 85.8 kDa in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per µg of the 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.

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