COVID 19 Spike S1 (delta69-70 delta144 N501Y A570D D614G P681H) Coronavirus Recombinant Protein | COVID-19 recombinant protein

2019-nCoV Spike protein S1 (delta69-70 delta144 N501Y A570D D614G P681H)

CATALOG #	HOST
AAA73333	**CHO cells**

PRODUCT SYNONYMS

COVID 19 Spike S1 (delta69-70 delta144 N501Y A570D D614G P681H) Coronavirus; 2019-nCoV Spike protein S1 (delta69-70 delta144 N501Y A570D D614G P681H); 2019 Novel Coronavirus; Coronavirus; CoV; COVID-19 virus; HCoV-2; Human Coronavirus 2019; SARS2; SARS-CoV-2; Severe acute respiratory syndrome coronavirus 2; Spike S1 (delta69-70 delta144 N501Y A570D D614G P681H); 2019-nCoV s1; SARS-CoV-2 spike S1; SARS-CoV-2 S1; novel coronavirus spike s1; nCov spike s1; coronavirus spike S1.; COVID-19 recombinant protein

PRODUCT SPECIFICATIONS

Host	CHO cells
Form/Format	Recombinant protein stored in 50mM sodium phosphate, pH7.5, 300mM NaCl, 150mM imidazole.
Concentration	0.5ug/ul (determined by densitometry) (varies by lot)
Tag	HIS
Species	SARS-CoV-2
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



SDS-PAGE
Purity: Sample purity data. For lot-specific data, please refer to the respective datasheet.



Activity
Activity: Sample activity data. For lot-specific information, please refer to the specific datasheet.

ADDITIONAL INFORMATION

Related Product Information for COVID-19 recombinant protein	Recombinant 2019-nCoV Spike protein S1 (delta69 -70 delta144 N501Y A570D D614G P681H)(16-685) was expressed in CHO cells using a C-terminal His-tag. The gene accession number is MN908947. Severe acute respiratory syndrome coronavirus-2 (SARS-CoV-2) remains the most rapidly spreading disease since 2020. The spike glycoprotein (S) of coronavirus, a type I transmembrane protein containing two subunits S1 and S2, facilitates viral genome entry into the host cells through the interaction with angiotensin-converting enzyme 2 (ACE2)(1). The current UK variant B.1.1.7 contains 9 out of 23 mutations in the Spike protein. Of the mutations found in the Spike protein of the UK variant, delta69-70 and D614G have been associated with higher viral infectivity. N501Y is known to increase affinity for ACE2 and P681H mutation found adjacent to the furin cleavage site possibly plays a role in spike protein processing (2,3).
Product Categories/Family for COVID-19 recombinant protein	COVID-19 Proteins; Acute Respiratory Distress Syndrome; Cardiovascular Disease; Cellular Stress; COVID19; Gastrointestinal Diseases; Infectious Diseases; Inflammation; Lung Diseases; Metabolic Disorder; Neurobiology; severe acute respiratory syndrome coro

References	1. Lan J, et al: Crystal structure of the 2019-nCov spike receptor-binding domain bound with the ACE2 receptor. Nature. 2020, 581:215-220. 2. Tada T, et al: Neutralization of viruses with European, South African, and United States SARS-CoV-2 variant spike proteins by convalescent sera and BNT162b2 mRNA vaccine-elicited antibodies. https://www.biorxiv.org/content/10.1101/2021.02.05.430003v1. 3. Korber B, et al: Tracking changes in SARS-CoV-2 Spike: Evidence that D614G increases infectivity of the covid-19 virus. Cell. 2020, 182:812-82.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/covid-19-spike-s1-delta69-70-delta144-n501y-a570d-d614g-p681h-coronavirus-recombinant-protein-cho-cells/73333