

COVID 19 Spike S1 (delta69-70, Y453F, D614G) Coronavirus Recombinant Protein | COVID-19 recombinant protein

2019-nCoV Spike protein S1 (delta69-70, Y453F, D614G)

CATALOG # AAA73324	HOST CHO cells
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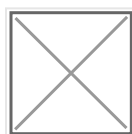
PRODUCT SYNONYMS

COVID 19 Spike S1 (delta69-70; Y453F; D614G) Coronavirus; 2019-nCoV Spike protein S1 (delta69-70; D614G); 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; 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

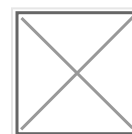
Host	CHO cells
Form/Format	Recombinant protein stored in 50mM sodium phosphate, pH7.5, 300mM NaCl, 150mM imidazole.
Concentration	0.5ug/ul (varies by lot)
Tag	HIS
Species	SARS-CoV-2
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation 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



Bioactivity

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



SDS-PAGE

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

ADDITIONAL INFORMATION

Related Product Information for COVID-19 recombinant protein	Recombinant 2019-nCoV Spike protein S1 (delta69-70, Y453F, D614G)(16-685) was expressed in CHO cells using a C-terminal His-tag. The gene accession number is MN908947. Novel coronavirus SARS-CoV-2 has caused the pandemic of the respiratory diseases (COVID-19) around the world. The spike glycoprotein (S) of coronavirus, a type I transmembrane protein containing two subunits, S1 and S2 is known to bind with host cells through the interaction with angiotensin-converting enzyme 2 (ACE2)(1). Upon binding of S1 subunit of Spike protein to the host ACE2, TMPRSS2 cleaves at the S1/S2 boundary or within S2 subunit to facilitate the entry of viral genomes into the host cells. SARS-CoV-2 variant comprising Y453F and delta 69-70 mutations has been detected in human cases in Denmark. Y453F mutation associated with the mink infections has mild positive effect on viral binding to host cell. However, D614G and deltaH69/V70 have been considered to enhance viral transmissibility and infectivity, respectively (3, 4).
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; Neurobiology; severe acute respiratory syndrome coronavirus 2; Virology

References

1. Lan J, et al: Structure of the SARS-CoV-2 spike receptor-binding domain bound to the ACE2 receptor. Nature. 2020, 581:215-220.
2. Hou YJ, et al: SARS-CoV-2 D614G variant exhibits efficient replication ex vivo and transmission in vivo. Science. 2020, 370 (6523):1464-1468.
3. Kemp SA, et al: Recurrent emergence and transmission of a SARS-CoV-2 Spike deletion H69/V70. bioRxiv 2020.12.14.422555; doi: <https://doi.org/10.1101/2020.12.14.422555>

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-y453f-d614g-coronavirus-recombinant-protein-cho-cells/73324>