

COVID 19 Spike S Protein Coronavirus Recombinant Protein | COVID-19 recombinant protein

Recombinant 2019-nCoV Spike Protein (C-6His)

CATALOG # AAA27945	HOST Human cells	APPLICATIONS Immunogen, Calibrator, Standard
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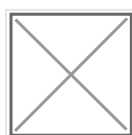
PRODUCT SYNONYMS

COVID 19 Spike S Protein Coronavirus; Recombinant 2019-nCoV Spike Protein (C-6His); 2019 Novel Coronavirus; Coronavirus; CoV; COVID-19 virus; HCoV-2; Human Coronavirus 2019; SARS2; SARS-CoV-2; Severe acute respiratory syndrome coronavirus 2; Spike S; 2019-nCoV S protein; 2019-nCoV Spike glycoprotein; 2019-nCoV S glycoprotein; COVID-19 recombinant protein

PRODUCT SPECIFICATIONS

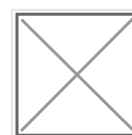
Host	Human cells
Purity/Purification	Purity: Greater than 95% as determined by reducing SDS-PAGE. Purification: Affinity purification chromatography.
Form/Format	Supplied as a 0.2 uM filtered solution of PBS, pH7.4.
Applicable Applications for COVID-19 recombinant protein	Immunogen, Calibrator, Standard
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	Short term: -20°C Long Term: -80°C. Avoid repeated freezing and thawing cycles.

IMAGES



Application Data

Binding data of recombinant 2019-nCoV Spike Protein (C-6His) with ACE2 receptor.



SDS-PAGE

Tris-Bis PAGE of Recombinant 2019-nCoV Spike protein

ADDITIONAL INFORMATION

Related Product Information for COVID-19 recombinant protein

Description: Recombinant 2019-nCoV Spike Protein is produced by the Mammalian Expi293 expression system.

Background: Protein S (PROS1) is glycoprotein and expressed in many cell types supporting its reported involvement in multiple biological processes that include coagulation, apoptosis, cancer development and progression, and the innate immune response. Known receptors bind S1 are ACE2, angiotensin-converting enzyme 2, DPP4, CEACAM etc. The spike (S) glycoprotein of coronaviruses is known to be essential in the binding of the virus to the host cell at the advent of the infection process. Most notable is severe acute respiratory syndrome (SARS). The severe acute respiratory syndrome-coronavirus (SARS-CoV) spike (S) glycoprotein alone can mediate the membrane fusion required for virus entry and cell fusion. It is also a major immunogen and a target for entry inhibitors. It's been reported that 2019-nCoV can infect the human respiratory epithelial cells through interaction with the human ACE2 receptor. The spike protein is a large type I transmembrane protein containing two subunits, S1 and S2. S1 mainly contains a receptor binding domain (RBD), which is responsible for recognizing the cell surface receptor. S2 contains basic elements needed for the membrane fusion. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity.

NCBI AND UNIPROT INFORMATION

Molecular Weight

77kDa

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-s-protein-coronavirus-recombinant-protein-human-cells-immunogen-calibrator-standard/27945>