

COVID 19 Spike S1+S2 Coronavirus Active Protein | COVID-19 active protein

SARS-CoV-2 (2019-nCoV) Spike Protein (S1+S2 ECD, His tag)

CATALOG # AAA268887	HOST Baculovirus-Insect Cells Source: 2019nCoV
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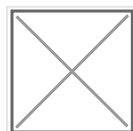
PRODUCT SYNONYMS

COVID 19 Spike S1+S2 Coronavirus; SARS-CoV-2 (2019-nCoV) Spike Protein (S1+S2 ECD; His tag); 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+S2; COVID-19 active protein

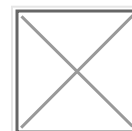
PRODUCT SPECIFICATIONS

Host	Baculovirus-Insect Cells Source: 2019nCoV
Purity/Purification	>90 % as determined by SDS-PAG
Form/Format	Liquid or lyophilized from sterile 20 mM Tris, 300 mM NaCl, 10 % glycerol, pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Reconstitution	Detailed reconstitution instructions are sent along with the products
Predicted N terminal	Val 16
Biological Activity	Immobilized Spike Protein (S1+S2 ECD, His tag) (ZD2019-P1) at 156.5-10000ng/mL (100uL/well) can bind 10ug/ml of Human ACE2, Fc Tag
Protein Construction	A DNA sequence encoding the SARS-CoV-2 (2019-nCoV) Spike Protein (S1+S2ECD) (YP_009724390.1) (Val16-Pro1213) was expressed with a polyhistidine tag at the C-terminus
Molecular Mass	The recombinant SARS-CoV-2 (2019-nCoV) Spike Protein (S1+S2 ECD, His tag) consists of 1209 amino acids and predicts a molecular mass of 134.36 kDa.
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	Samples are stable for twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for COVID-19 active protein	Description: The spike (S) glycoprotein of coronaviruses contains protrusions that will only bind to certain receptors on the host cell. Known receptors bind S1 are ACE2, angiotensin-converting enzyme 2; DPP4, dipeptidylpeptidase-4; APN aminopeptidase N; CEACAM, carcinoembryonic antigen-related cell adhesion molecule 1; Sia, sialic acid; O-ac Sia, O-acetylated sialic acid. The spike is essential for both host specificity and viral infectivity. The term 'peplomer' is typically used to refer to a grouping of heterologous proteins on the virus surface that function together. The spike (S) glycoprotein of coronaviruses is known to be essential in the binding of the virus to the host cell at the of the infection process. 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.
References	References: 1. Shen S, et al. (2007) Expression, glycosylation, and modification of the spike (S) glycoprotein of SARS CoV. Methods Mol Biol. 379: 127-35. 2. Du L, et al. (2009) The spike protein of SARS-CoV--a target for vaccine and therapeutic development. Nat Rev Microbiol. 7 (3): 226-36. 3. Xiao X, et al. (2004) The SARS-CoV S glycoprotein. Cell Mol Life Sci. 61 (19-20): 2428-30.

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/baculovirus-insect-cells-covid-19-active-protein/covid-19-spike-s1s2-coronavirus/268887>