

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

Recombinant 2019-nCoV Spike S1 Protein with His tag

CATALOG #
AAA281526

HOST
HEK293 Cells

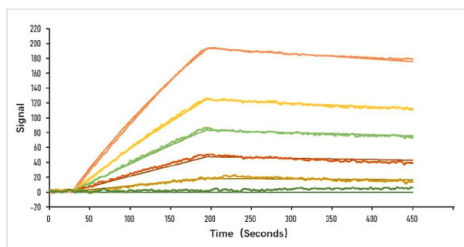
PRODUCT SYNONYMS

COVID 19 Spike S1 Coronavirus; Recombinant 2019-nCoV Spike S1 Protein with 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 Protein; COVID-19 active protein

PRODUCT SPECIFICATIONS

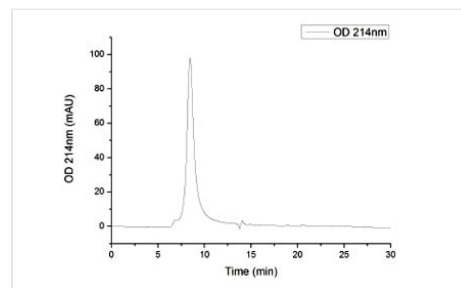
Host	HEK293 Cells
Purity/Purification	>90% by SDS-PAGE; > 95% by HPLC
Form/Format	Lyophilized from a 0.22 um filtered solution of PBS, pH 7.4.
Species	2019-nCoV
Endotoxin	< 1.0 EU/ug of the protein by LAL method.
Tag	6xHis tag at the C-terminus
Reconstitution	Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.
Preparation and Storage	Store the lyophilized protein at -20 degree C to -80 degree C for long term. After reconstitution, the protein solution is stable at -20 degree C for 3 months, at 2-8 degree C for up to 1 week.

IMAGES



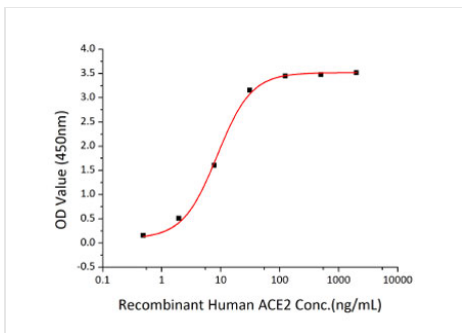
Application Data

Immobilized Human ACE2 on COOH Chip, can bind 2019-nCoV Spike S1 with an affinity constant of 11.4 nM as determined in a SPR assay (Nicoya OpenSPR).



Application Data

The purity of 2019-nCoV Spike S1 Protein with His tag (AAA281526) was greater than 95% as determined by SEC-HPLC.



Application Data

Immobilized Recombinant 2019-nCoV Spike S1 at 2 μ g/mL (100 μ L/well) can bind Recombinant Human ACE2 with a linear range of 0.5-8.7 ng/mL.



SDS-PAGE

Recombinant 2019-nCoV Spike S1 Protein with His tag was determined by SDS-PAGE with Coomassie Blue, showing a band at 110-130 kDa.

ADDITIONAL INFORMATION

Related Product Information for COVID-19 active protein

Description: Recombinant 2019-nCoV Spike S1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Val16-Arg685) of 2019-nCoV Spike S1 (Accession #YP_009724390.1) fused with a 6xHis tag at the C-terminus.

Background: The spike protein (S) of coronavirus (CoV) attaches the virus to its cellular receptor, angiotensin-converting enzyme 2 (ACE2). A defined receptor-binding domain (RBD) on S mediates this interaction. 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

NCBI GeneID

43740568

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/hek293-cells-covid-19-active-protein/covid-19-spike-s1-coronavirus/281526>