

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

Recombinant SARS-CoV-2 Spike S1 Protein (His Tag)

CATALOG # AAA78534	HOST HEK293 cells	APPLICATIONS Functional Assay
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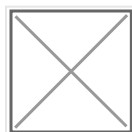
PRODUCT SYNONYMS

COVID 19 Spike S1 Coronavirus; Recombinant SARS-CoV-2 Spike S1 Protein (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; COVID-19 active protein

PRODUCT SPECIFICATIONS

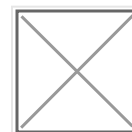
Host	HEK293 cells
Purity/Purification	>90% by SDS-PAGE.
Form/Format	Lyophilized from a 0.22um filtered solution of PBS, pH7.4
Applicable Applications for COVID-19 active protein	FA (Functional Assay)
Endotoxin	<1.0EU/ug of the protein by LAL method.
Reconstitution	Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.
Biological Activity	Recombinant 2019-nCoV Spike S1 Protein is produced by HEK293 cells expression system. Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human ACE2 at 2ug/mL (100uL/well) can bind Recombinant nCoV-S1, the EC50 of nCoV-S1 is 0.25-0.45 ug/mL
Amino Acid note	The target protein is expressed with sequence (Val16-Arg685) of 2019-ncov Spike S1 fused with a 6xHis tag at the C-terminus.
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. Avoid repeated freeze/thaw cycles.

IMAGES



Application Data

Fig 2 Immobilized Recombinant Human ACE2 at 2 ug/mL (100uL/well) can bind Recombinant nCoV-S1, The EC50 of nCoV-S1 is 0.25-0.45 ug/mL.



SDS-PAGE

Figure-1: Recombinant COVID-19 Spike S1 Protein 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	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.
Product Categories/Family for COVID-19 active protein	Recombinant Proteins

NCBI AND UNIPROT INFORMATION

NCBI GeneID	43740568
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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/hek293-cells-covid-19-active-protein/covid-19-spike-s1-coronavirus/78534>