

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

Recombinant 2019-nCoV Spike RBD Protein

CATALOG #
AAA281522

HOST
HEK293 Cells

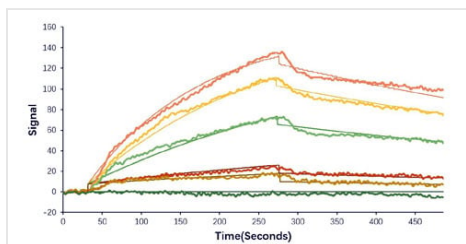
PRODUCT SYNONYMS

COVID 19 Spike RBD Coronavirus; Recombinant 2019-nCoV Spike RBD Protein; 2019 Novel Coronavirus; Coronavirus; CoV; COVID-19 virus; HCoV-2; Human Coronavirus 2019; SARS2; SARS-CoV-2; Severe acute respiratory syndrome coronavirus 2; Spike RBD; Receptor Binding Domain; COVID-19 active protein

PRODUCT SPECIFICATIONS

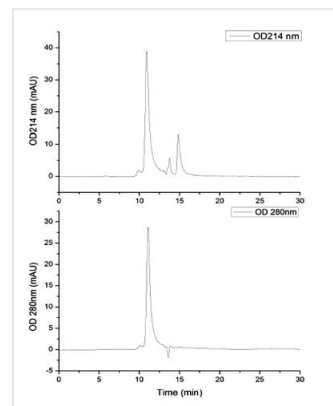
Host	HEK293 Cells
Purity/Purification	>95% by SDS-PAGE.
Form/Format	Lyophilized from a 0.22 um filtered solution of PBS, pH 7.4.
Category	Recombinant Protein
Species	2019-nCoV
Tags	6xHis tag at the C-terminus
Bio-Activity	Measured by its binding ability in a functional ELISA. Immobilized Recombinant SARS-COV-2 Spike RBDHis at 2ug/mL (100 uL/well) can bind Recombinant Human ACE2 with a linear range of 0.15-4.53 ng/mL. Immobilized human ACE2 on COOH Chip, can bind SARS-COV-2 Spike RBD Protein with an affinity constant of 36.7 nM as determined in a SPR assay (Nicoya OpenSPR).
Endotoxin	< 0.1 EU/ug of the protein by LAL method.
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



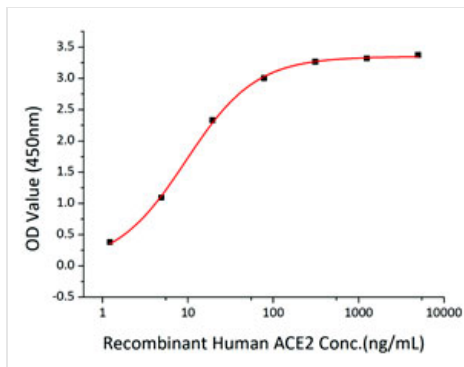
Application Data

Immobilized Recombinant SARS-COV-2 Spike RBD-His at 2ug/mL (100 uL/well) can bind Recombinant Human ACE2 with a linear range of 0.15-4.53 ng/mL.



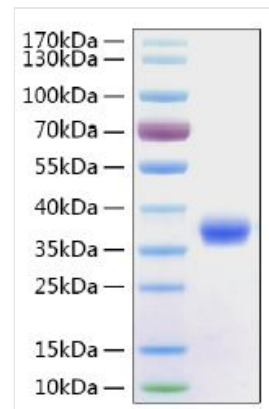
Application Data

Recombinant SARS-COV-2 Spike RBD Protein with His tag was determined by SDS-PAGE with Coomassie Blue, showing a band at 36 kDa.



Bioactivity

Immobilized Recombinant 2019-nCoV Spike RBD-His at 2ug/mL (100 uL/well) can bind Recombinant Human ACE2 with a linear range of 1.5-9.4 ng/mL.



SDS-PAGE

Recombinant 2019-nCoV Spike RBD Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 36 kDa.

ADDITIONAL INFORMATION

Related Product Information for COVID-19 active protein

Recombinant 2019-nCoV Spike RBD-His Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Arg319-Phe541) of 2019-ncov Spike RBD-His (Accession #YP_009724390.1) fused with an 6×His tag at the C-terminus.

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.

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Online datasheet: <https://stage.aaabiotech.com/hek293-cells-covid-19-active-protein/covid-19-spike-rbd-coronavirus/281522>