

COVID 19 S1 Spike RBD Coronavirus Recombinant Protein | COVID-19 recombinant protein

Recombinant SARS-CoV-2 Spike RBD Protein, His tag (Animal-Free)

CATALOG # AAA31529	HOST HEK 293 Cells
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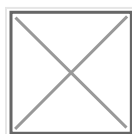
PRODUCT SYNONYMS

COVID 19 S1 Spike RBD Coronavirus; Recombinant SARS-CoV-2 Spike RBD Protein; His tag (Animal-Free); 2019 Novel Coronavirus; Coronavirus; CoV; COVID-19 virus; HCoV-2; Human Coronavirus 2019; SARS2; SARS-CoV-2; Severe acute respiratory syndrome coronavirus 2; S1 Spike RBD; Receptor Binding Domain; COVID-19 recombinant protein

PRODUCT SPECIFICATIONS

Host	HEK 293 Cells
Purity/Purification	>95% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4.
Sequence	Arg319-Phe 541
Endotoxin	< 1 EU per ug of the protein as determined by the LAL method.
Sequence	Amino acid sequence derived from SARS-CoV-2 (COVID-19) Spike RBD protein (YP_009724390.1, Arg 319 - Phe 541) was expressed with a polyhistidine tag at the C-terminus.
Protein Length	The recombinant SARS-CoV-2 (COVID-19) Spike RBD protein consists of 229 amino acids and predicts a molecular mass of 26.5 kD. The apparent molecular mass of the human CD33 is approximately 32-35kDa in SDS-PAGE under reducing conditions due to glycosylation.
Usage Notes	Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized SARS-CoV-2 (COVID-19) S protein RBD protein not less than 100ug/mL, which can then be further diluted to other aqueous solutions.
Biological Activity	Immobilized SARS-CoV-2 Spike RBD protein at 1.25 µg/mL (100µL/well) can bind Human Ace-2, the EC50 of human Ace-2 is 54 ng/mL.
Preparation and Storage	Lyophilized SARS-CoV-2 (COVID-19) Spike RBD protein product should be stored desiccated below -18 degree C. Upon reconstitution, the protein should be stored at 4 degree C between 2-7 days and for future use below -18 degree C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

IMAGES



SDS-PAGE

Fig.SDS-PAGE analysis of Recombinant SARS-CoV-2 Spike RBD Protein, His tag

ADDITIONAL INFORMATION

Related Product Information for COVID-19 recombinant protein	Description: Recombinant SARS-CoV-2 Spike RBD protein expressed in HEK293 Cells. Background: COVID-19 has become pandemic with higher morbidity and mortality rates after its start from Wuhan city of China. The infection by RNA virus, also known as SARS-CoV-2 or 2019-nCoV, from beta class of corona viruses has been found to be responsible for COVID-19. Structural analysis and evidences have been indicated that interaction between a segment of receptor binding domain (RBD) from S protein of virus and human angiotensin-converting enzyme 2 (hACE2) is essential for cellular entry of virus. Inhibition of RBD-hACE2 interaction by different molecular scaffolds can be used as a preferred strategy for control of SARS-CoV-2 infection.
Product Categories/Family for COVID-19 recombinant protein	Cell Culture; Cytokines (Animal-Free)

NCBI AND UNIPROT INFORMATION

UniProt Accession #	P0DTC2
Molecular Weight	26.5kDa

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-s1-spike-rbd-coronavirus-recombinant-protein-hek-293-cells/31529>