

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

Recombinant 2019-nCoV S Protein RBD (C-mFc) (Mammalian expression)

CATALOG # AAA268899	HOST Human Cells	APPLICATIONS Calibrator, Immunogen
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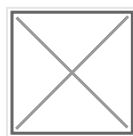
PRODUCT SYNONYMS

COVID 19 S Protein Spike RBD Coronavirus; Recombinant 2019-nCoV S Protein RBD (C-mFc) (Mammalian expression); 2019 Novel Coronavirus; Coronavirus; CoV; COVID-19 virus; HCoV-2; Human Coronavirus 2019; SARS2; SARS-CoV-2; Severe acute respiratory syndrome coronavirus 2; S Protein Spike RBD; Receptor Binding Domain; COVID-19 recombinant protein

PRODUCT SPECIFICATIONS

Host	Human Cells
Purity/Purification	>95% as determined by reducing SDS-PAGE. Affinity purification chromatography
Form/Format	Supplied as a 0.2um filtered solution of PBS, pH 7.4
Sequence Length	1273
Applicable Applications for COVID-19 recombinant protein	Calibrator, Immunogen
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	Ships on dry ice. Reconstituted protein solution should be stored at <= -20 degree C.

IMAGES



Application Data

Immobilized Human ACE-2-Fc at 10ug/ml (100ul/well) can bind 2019-nCoV S1 Protein-mFc (AAA268899). The ED50 of 2019-nCoV S1 Protein-mFc (AAA268899) is 0.19ug/ml.

ADDITIONAL INFORMATION

Related Product Information for COVID-19 recombinant protein

Description: Recombinant 2019-nCoV S1 Protein is produced by our Mammalian expression system and the target gene encoding Gln14-Arg685 is expressed with a mFctag at the C-terminus.

Background: Protein S (PROS1) is glycoprotein and expressed in many cell types supporting its reported involvement in multiple biological processes that include coagulation, apoptosis, cancer development and progression, and the innate immune response. Known receptors bind S1 are ACE2, angiotensin-converting enzyme 2, DPP4, CEACAM6 etc. The spike (S) glycoprotein of coronaviruses is known to be essential in the binding of the virus to the host cell at the advent of the infection process. Most notable is severe acute respiratory syndrome (SARS). The severe acute respiratory syndrome-coronavirus (SARS-CoV) spike (S) glycoprotein alone can mediate the membrane fusion required for virus entry and cell fusion. It is also a major immunogen and a target for entry inhibitors. 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. 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 GI #	1791269090
Molecular Weight	Molecular Weight: 101.3kDa AP Molecular Weight: 130-160kDa, reducing conditions
NCBI Official Full Name	surface glycoprotein

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-s-protein-spike-rbd-coronavirus-recombinant-protein-human-cells-calibrator-immunogen/268899>