

COVID 19 Spike S Protein (RBD) Coronavirus Active Protein | COVID-19 active protein

Recombinant 2019-nCoV Spike S Protein (RBD, mFc Tag)

CATALOG #
AAA176990

HOST
Human Cells

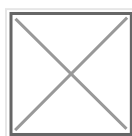
PRODUCT SYNONYMS

COVID 19 Spike S Protein (RBD) Coronavirus; Recombinant 2019-nCoV Spike S Protein (RBD; mFc 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 Protein (RBD; Receptor Binding Domain); COVID-19 active protein

PRODUCT SPECIFICATIONS

Host	Human Cells
Purity/Purification	> 95 % as determined by reducing SDS-PAGE.
Form/Format	Supplied as a 0.2 uM filtered solution of PBS, pH 7.4.
Concentration	1.85mg/mL (varies by lot)
Sequence	Asn331-Val 524
Species	Virus
Tag	C-mFc
Biological Activity	Immobilized Human ACE-2-His at 10ug/ml (100 ul/well) can bind Recombinant 2019-nCoV Spike Protein (RBD, mFc Tag) . The ED50 of Recombinant 2019-nCoV Spike Protein (RBD, mFc Tag) is 62 ng/ml.
Endotoxin	< 1.0 EU per ug as determined by the LAL method.
Preparation and Storage	Ships on blue ice. This product is provided as liquid, upon receipt, store it immediately at <-20°C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for COVID-19 active protein

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, CEACAM 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

UniProt Accession #	QHD43416.1
Molecular Weight	Mol_Mass: 47.9 kDa; AP_Mol_Mass: 50-60 kDa

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/human-cells-covid-19-active-protein/covid-19-spike-s-protein-rbd-coronavirus/176990>