

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

SARS-CoV-2 (2019-nCoV) Spike Protein (RBD, His Tag)

CATALOG #
AAA268888

HOST
HEK293 CellsSource: 2019nCoV

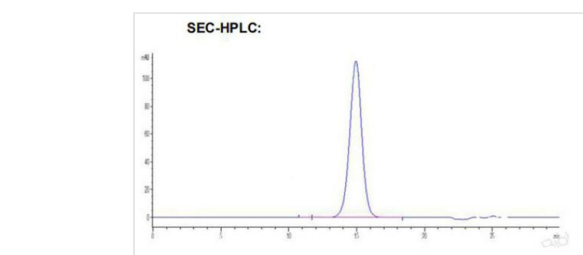
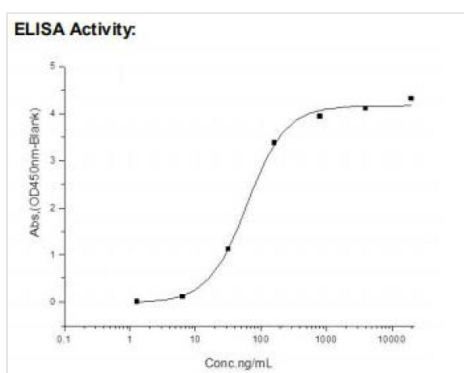
PRODUCT SYNONYMS

COVID 19 Spike RBD Coronavirus; SARS-CoV-2 (2019-nCoV) Spike Protein (RBD; 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 RBD; Receptor Binding Domain; COVID-19 active protein

PRODUCT SPECIFICATIONS

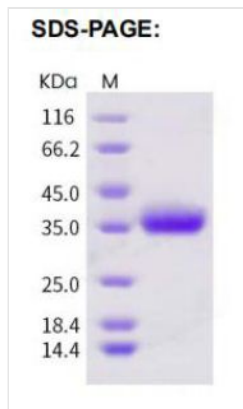
Host	HEK293 Cells Source: 2019nCoV
Purity/Purification	>95% as determined by SDS-PAGE.
Form/Format	Liquid or lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Predicted N terminal	Arg 319
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized human ACE2 protein (Fctag) at 10 u g/mL (100 u L/well) can bind SARS-CoV-2 (2019-nCoV) Spike Protein (RBD, HisTag)(ZD2019-P11), the EC50 of SARS-CoV-2 (2019-nCoV) Spike Protein (RBD, His Tag)(ZD2019-P11)is 50-100 ng/mL.
Protein Construction	A DNA sequence encoding the SARS-CoV-2 (2019-nCoV) Spike Protein (RBD)(YP_009724390.1) (Arg319-Phe541) was expressed with a polyhistidine tag at the C-terminus.
Molecular Mass	The recombinant SARS-CoV-2 (2019-nCoV) Spike Protein (RBD, His Tag) consists of 234 amino acids and predicts a molecular mass of 23.54 kDa
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	Samples are stable for 12 months from date of receipt at -20 degree C to -80 degree C. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thawcycles

IMAGES



Application Data

Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for COVID-19 active protein	Description: The spike (S) glycoprotein of coronaviruses contains protrusions that will only bind to certain receptors on the host cell. Known receptors bind S1 are ACE2, angiotensin-converting enzyme2; DPP4, dipeptidyl peptidase-4; APN, aminopeptidase N; CEACAM, carcinoembryonic antigen-related cell adhesion molecule 1; Sia, sialic acid; O-ac Sia, O-acetylated sialic acid. The spike is essential for both host specificity and viral infectivity. 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.
References	References: Shen S, et al. (2007) Expression, glycosylation, and modification of the spike (S) glycoprotein of SARS CoV. Methods Mol Biol. 379: 127-35. Du L, et al. (2009) The spike protein of SARS-CoV--a target for vaccine and therapeutic development. Nat Rev Microbiol. 7 (3): 226-36. Xiao X, et al. (2004) The SARS-CoV S glycoprotein. Cell Mol Life Sci. 61 (19-20): 2428-30.

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/hek293-cells-covid-19-active-protein/covid-19-spike-rbd-coronavirus/268888>