

Datasheet for ABIN6952735

SARS-CoV-2 Spike S1 Protein (His-Avi Tag)



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2 Images

Overview

Quantity:	100 µg
Target:	SARS-CoV-2 Spike S1
Origin:	SARS Coronavirus-2 (SARS-CoV-2)
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This SARS-CoV-2 Spike S1 protein is labelled with His-Avi Tag.
Application:	SDS-PAGE (SDS), Functional Studies (Func)

Product Details

Sequence:	QCVNLTTTRTQ LPPAYTNSFT RGVYYPDKVF RSSVLHSTQD LFLPFFSNVT WFHAIHVSQT NGTKRFDNPV LPFNDGVYFA STEKSNIIRG WIFGTTLDSK TQSLIVNNA TNVVIKVCFF QFCNDPFLGV YYHKNNKSWM ESEFRVYSSA NNCTFEYVSQ PFLMDLEGKQ GNFKNLREFV FKNIDGYFKI YSKHTPINLV RDLPPQGFSAE EPLVDLPIGI NITRFQTLLA LHRSYLTPGD SSSGWTAGAA AYYVGYLQPR TFLKYNENG TITDAVDCAL DPLSETKCTL KSFTVEKGIY QTSNFRVQPT ESIVRFPNIT NLCPFGEVFN ATRFASVYAW NRKRISNCVA DYSLVLYNSAS FSTFKCYGVS PTKLNDLCFT NVYADSFVIR GDEVQRQIAPG QTGKIADYNY KLPDDFTGCV IAWNSNNLDS KVGGNYNLYL RLFRKSNLKP FERDISTEYI QAGSTPCNGV EGFNCYFPLQ SYGFQPTNGV GYQPYRVVVL SFELLHAPAT VCGPKKSTNL VKNKCVNFNF NGLTGTGVLT ESNKKFLPFQ QFGRDIADTT DAVRDPQTL EILDITPCSGF GVSVITPGTN TSNQVAVLYQ DVNCTEVPVA IHADQLTPTW RVYSTGSNVF QTRAGCLIGA EHVNNSEYCD IPIGAGICAS YQTQTNSPRR
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Product Details

Specificity:	Gln14-Arg683
Characteristics:	Recombinant 2019-nCoV S1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln14-Arg683) of 2019-ncov Spike S1 (Accession #YP_009724390.1) fused with a 6xHis tag and Avi at the C-terminus.
Purity:	>95 % by SDS-PAGE,> 95 % by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	< 1.0 EU/µg of the protein by LAL method.
Biological Activity Comment:	1.Measured by its binding ability in a functional ELISA. Immobilized Recombinant SARS-CoV-2 Spike S1 at 2 µg/mL (100 µL/well) can bind recombinant Human ACE2 with a linear range of 0.15-6.85 ng/mL.< /br>2.Immobilized Human ACE2 on COOH Chip can bind SARS-COV-2 Spike S1 with an affinity constant of 24.5 nM as determined in a SPR assay (Nicoya OpenSPR).

Target Details

Target:	SARS-CoV-2 Spike S1
Abstract:	SARS-CoV-2 Spike S1 Products
Target Type:	Viral Protein
Background:	Description: The spike protein (S) of coronavirus (CoV) attaches the virus to its cellular receptor, angiotensin-converting enzyme 2 (ACE2). A defined receptor-binding domain (RBD) on S mediates this interaction. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity. Name: Envelope,SARS-CoV-2 Spike RBD (N501Y),Spike,Spike ECD,Spike RBD,Spike S1,Spike S2,Spike S2 ECD,S1-RBD protein,NCP-CoV RBD Protein,novel coronavirus RBD Protein,2019-nCoV RBD Protein,S glycoprotein Subunit1 RBD Protein
Gene ID:	43740568
UniProt:	P0DTC2

Application Details

Restrictions:	For Research Use only
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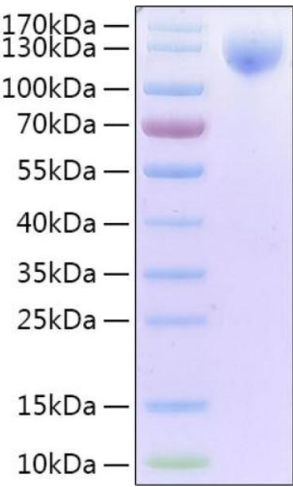
Handling

Format:	Lyophilized
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Handling

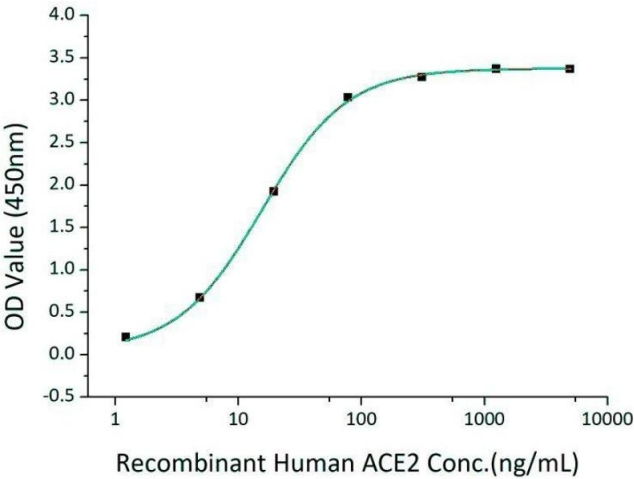
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Buffer:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. or Supplied as a 0.22 µm filtered solution in PBS, pH 7.4.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. For This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.

Images



SDS-PAGE

Image 1. Recombinant 2019-nCoV Spike S1 Protein with His and Avi tag on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



ELISA

Image 2. Immobilized Recombinant 2019-nCoV Spike S1-His-Avi at 2 µg/mL (100 µL/well) can bind Recombinant Human ACE2 with a linear range of 1.5-15 ng/mL.