

Datasheet for ABIN7596141

SARS-CoV Spike Protein (AA 14-1195) (His tag)



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Overview

Quantity:	250 µg
Target:	SARS-CoV Spike (SARS-CoV S)
Protein Characteristics:	AA 14-1195
Origin:	SARS Coronavirus (SARS-CoV)
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This SARS-CoV Spike protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Activity Assay (AcA)

Product Details

Sequence:	SDLDRCTTFD DVQAPNYTQH TSSMRGVVYP DEIFRSDTLY LTQDLFLPFY SNVTGFHTIN HTFGNPVPIF KDGIFYAATE KSNVVRGWVF GSTMNNKSQS VIIINNSTNV VIRACNFELC DNPFFAVSKP MGTQTHMIF DNAFNCTFEY ISDAFSLDVS EKSGNFKHLR EFVFNKNDGF LYVYKGYQPI DVVRDLPSGF NTLKPIFKLP LGINITNFRA ILTAFSPAQD IWGTSAAAYF VGYLKPTTFM LKYDENGIT DAVDCSQNPL AELKCSVKSF EIDKGIYQTS NFRVVPBGDV VRFPNITNLC PFGEVFNATK FPSVYAWERK KISNCVADYS VLYNSTFFST FKCYGVSATK LNDLCFSNVY ADSFVVKGDD VRQIAPGQTG VIADYNYKLP DDFMGCVLAW NTRNIDATST GNYNYKYRYL RHGKLRFER DISNVPFSPD GKPCTPPALN CYWPLNDYGF YTTTGIGYQP YRVVVLSEFEL LNAATVCGP KLSTDLIKNQ CVNFNFNGLT GTGVLTSSK RFQPFQFGR DVSDFTDSVR DPKTSEILDI SPCAFGGVSV ITPGTNASSE VAVLYQDVNC TDVSTAIHAD QLTPAWRIYS TGNNVFQTQA GCLIGAEHVD TSYECDPIG AGICASYHTV SLLRSTSQKS
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Product Details

IVAYTMSLGA DSSIAYSNNT IAIPTNFSIS ITTEVMPVSM AKTSVDCNMY ICGDSTECAN
LLLQYGSFCT QLNRLSGIA AEQDRNTREV FAQVKQMYKT PTLKYFGGFN FSQILPDPLK
PTKRSFIEDL LFNKVTLADA GFMKQYGECL GDINARDLIC AQKFNGLTVL PPLLTDDMIA
AYTAALVSGT ATAGWTFGAG AALQIPFAMQ MAYRFNGIGV TQNVLYENQK QIANQFNKAI
SQQESLTTT STALGKLQDV VNQNAQALNT LVKQLSSNFG AISSVLNDIL SRLDKVEAEV
QIDRLITGRL QSLQTYVTQQ LIRAAEIRAS ANLAATKMSE CVLGQSKRVD FCGKGYHLMS
FPQAAPHGVV FLHVTYVPSQ ERNFTTAPAI CHEGKAYFPR EGVFVFNGTS WFITQRNFFS
PQIITDNTF VSGNCDVVIG IINNTVYDPL QPELDSFKEE LDKYFKNHTS PDVDLGDISG
INASVVNIQK EIDRLNEVAK NLNESLIDLQ ELGKYEQYIK WP

Purity:	> 85% by SDS - PAGE
Endotoxin Level:	< 1 EU per 1ug of protein (determined by LAL method)
Biological Activity Comment:	Measured by its binding ability in a functional ELISA with Human ACE-2 (CAT# ATGP3963)

Target Details

Target:	SARS-CoV Spike (SARS-CoV S)
Alternative Name:	SARS-CoV Spike (SARS-CoV S Products)
Background:	Severe Acute Respiratory Syndrome Coronavirus (SARS-CoV), Middle Eastern Respiratory Syndrome Coronavirus (MERS-CoV), and the recently identified novel Coronavirus (SARS-CoV-2) belong to the Coronaviridae family, genus Betacoronavirus, that has been related to important epidemiological outbreaks. SARS-CoV emerged in 2003 as a significant threat to human health. SARS-CoV has four structural proteins, known as the S (spike), E (envelope), M (membrane), and N (nucleocapsid) proteins. The spike protein, responsible for allowing the virus to attach to and fuse with the membrane of a host cell and 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. It attaches the virion to the cell membrane by interacting with host receptor, initiating the infection. A metalloproteinase, angiotensin-converting enzyme 2 (ACE-2), has been identified as a functional receptor for SARS-CoV through interaction with a receptor binding domain (RBD) located at the C-terminus of S1 subunit. Recombinant SARS-CoV spike protein fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Target Details

Molecular Weight: 131.9kDa(1188aa)

NCBI Accession: [NP_828851](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.25 mg/mL

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.