

Spike S1 Protein (SARS-CoV-2 UK Variant B.1.1.7)

CATALOG NUMBER: SCV2-S1-UKp, 50 µg

Introduction

The novel coronavirus (SARS-CoV-2), previously called 2019-nCoV, is a newly identified coronavirus causing the ongoing outbreak of atypical pneumonia in Wuhan China from late 2019.

The genome of SARS-CoV-2 has 89% nucleotide identity with bat SARS-like-CoVZXC21 and 82% with that of human SARS-CoV. The phylogenetic trees of their orf1a/b, Spike, Envelope, Membrane and Nucleocapsid protein also clustered closely with those of the bat, civet and human SARS coronaviruses. However, the external subdomain of Spike's receptor binding domain (RBD) of SARS-CoV-2 shares only 40% amino acid identity with other SARS-related coronaviruses.

Applications

Western blot standard, antibody ELISA, antigen, etc.

Description

Recombinant SARS-CoV-2 S1 protein of the UK variant B.1.1.7 purified from 293 cells

Viral Protein

SARS-CoV-2 S1 protein (amino acid 16-683) of the UK variant B.1.1.7 (GenBank Accession No. MW422256) with a C-terminal poly his-tag

Storage

Store at -20 °C; Stable for 6-months from the date of shipment when kept at 4 °C. Non-hazardous, no MSDS required.

Concentration

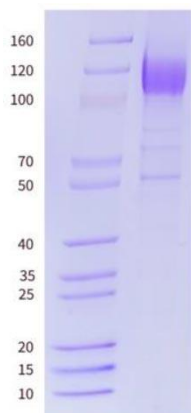
50 µg in PBS, pH7.4

Endotoxin Level

<0.01 EU per 1 µg of the protein by LAL test

Purity

≥ 95% (by SDS PAGE)



SDS-PAGE: purified spike SARS-CoV-2 S1 protein of the UK variant

SARS-CoV-2 S1 Protein of the UK variant (aa 16-683) SEQ:

VNLTTRTQLPPAYTNSFTRGVYYPDKVFRSSVLHSTQDLFLPFFSNVTWFHAISGTNGTKRFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDSTQS
LLIVNNAITNVVIVKVCDFQFCNDPFLGVYHKNKSWMESEFRVYSSANNCTFEYVQPFLLMDLEGGKQGNFKNLREFVFNIDGYFKIYSKHTPINLVRDL
PQGFSALEPLVDLPIGINITRFQTLALHRSYLTDPGDSSSGWTAGAAAYVGYLQPRFTLLKYNENGTITDAVDCALDPLSETKCTLKSFTVEKGIYQT
SNFRVQPTESIVRFPNITNLCPFGEVFNATRFASVYAWNRKRISNCVADYSVLVNSASFSTFKCYGVSPTKLNLDLCTNVYADSFVIRGDEVRQIAPGQ
TGKIADYNYKLPDDFTGCVIAWNSNNLDSKVGNYLYRLFRKSNLKPFFERDISTEIQAGSTPCNGVEGFNCYFPLQSYGFQPTYGVGYQPYRVVVL
SFELLHAPATVCGPKKSTNLVKNKCVNFNFNGLTGTGVLTESNKKFLPFQFGRDIDDTTDAVRDPQTEILDITPCSFGGVSIVTPGTNTSNQVAVLY
QGVNCTEVPVAIHADQLTPTWRVYSTGSNVFQTRAGCLIGAEHVNNSYECDIPIGAGICASYQTQTNSPRRARHHHHHHHH