

## Recombinant SARS-CoV-2 Alpha variant UK B.1.1.7 strain S1 RBD (N501Y mutant) Protein, His-tagged

Cat. No. S-602S    Lot. No. (See product label)

### SPECIFICATION

#### Product Overview

Recombinant Alpha variant UK B.1.1.7 strain SARS-CoV-2 Spike Protein, S1 Subunit (a.a. 319-541) RBD (N501Y Mutant) with a His tag was expressed in insect cell.

#### Species

SARS-CoV-2

#### Source

Insect Cells

#### ProteinLength

319-541

#### Description

Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is an enveloped, positive-sense, single-stranded RNA virus that causes coronavirus disease 2019 (COVID-19). Virus particles include the RNA genetic material and structural proteins needed for invasion of host cells. Once inside the cell the infecting RNA is used to encode structural proteins that make up virus particles, nonstructural proteins that direct virus assembly, transcription, replication and host control and accessory proteins whose function has not been determined.~ The structural proteins of SARS-CoV-2 include the envelope protein (E), spike or surface glycoprotein (S), membrane protein (M) and the nucleocapsid protein (N). The spike glycoprotein is found on the outside of the virus particle and gives coronavirus viruses their crown-like appearance. This glycoprotein mediates attachment of the virus particle and entry into the host cell. S protein is an important target for vaccine development, antibody therapies and diagnostic antigen-based tests.

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|                       |                                                                                                                                                                                                                                                 |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form</b>           | Affinity Purified                                                                                                                                                                                                                               |
| <b>Molecular Mass</b> | Calculated ~ 26 kDa                                                                                                                                                                                                                             |
| <b>Purity</b>         | ≥ 90% (SDS-PAGE)                                                                                                                                                                                                                                |
| <b>Applications</b>   | Suitable for use in ELISA and Western Blot. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded. |
| <b>Storage</b>        | Store at -20 centigrade. Avoid repeated freeze/thaw cycles.                                                                                                                                                                                     |
| <b>Concentration</b>  | 2.2 mg/mL (BCA)                                                                                                                                                                                                                                 |
| <b>Storage Buffer</b> | Phosphate Buffered Saline, pH 7.4                                                                                                                                                                                                               |

## GENE INFORMATION

|                        |                                                                                                      |
|------------------------|------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | S surface glycoprotein [ Severe acute respiratory syndrome coronavirus 2 ]                           |
| <b>Official Symbol</b> | S                                                                                                    |
| <b>Synonyms</b>        | S; surface glycoprotein; spike glycoprotein; surface glycoprotein; structural protein; spike protein |
| <b>Gene ID</b>         | 43740568                                                                                             |
| <b>mRNA Refseq</b>     | MN908947                                                                                             |
| <b>Protein Refseq</b>  | YP_009724390                                                                                         |

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