# Recombinant SARS-CoV-2 RBD Protein (Arg319-Phe541), C-Fc tagged

**Cat. No.** S-5500S **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant SARS-CoV-2 RBD (Arg319-Phe541) fused with the C-terminal Fc tag was expressed in Mammalian cells. |
| **Species** | SARS-CoV-2 |
| **Source** | Mammalian Cells |
| **ProteinLength** | Arg319-Phe541 |
| **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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| **Form** | Lyophilized powder/frozen liquid |
| **Molecular Mass** | 53.18 kDa |
| **Purity** | > 90 % as determined by SDS-PAGE |
| **Notes** | For research use only. |
| **Storage** | Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt. |
| **Storage Buffer** | Supplied as solution form in PBS, pH 7.4. |
| **Reconstitution** | Reconstitute in sterile water for a stock solution. |
| **Shipping** | They are shipped out with dry ice/blue ice unless customers require otherwise. |

## GENE INFORMATION

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| **Gene Name** | S surface glycoprotein [ Severe acute respiratory syndrome coronavirus 2 ] |
| **Official Symbol** | S |
| **Synonyms** | S; surface glycoprotein; spike glycoprotein; structural protein; spike protein |
| **Gene ID** | 43740568 |
| **Protein Refseq** | YP_009724390 |
| **UniProt ID** | P0DTC2 |

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