

## Recombinant SARS-CoV-2 Spike RBD (S477R) Mutant Protein, His-tagged

Cat. No. S-072S    Lot. No. (See product label)

### SPECIFICATION

#### Product Overview

Purified recombinant SARS coronavirus 2 Spike- RBD protein(Lys310~Leu560), S477R, with C-terminal His tag, secretory expressed in HEK293 cells

#### Species

SARS-CoV-2

#### Source

HEK293

#### ProteinLength

310-560

#### 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>Molecular Mass</b> | 30.1 kDa                                                                                                                             |
| <b>Purity</b>         | > 95% as determined by SDS-PAGE and Coomassie blue staining                                                                          |
| <b>Stability</b>      | Stable for at least 1 year from receipt of products under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| <b>Storage</b>        | Store at -80 centigrade after receiving vials.                                                                                       |
| <b>Concentration</b>  | > 50 µg/mL as determined by microplate BCA method                                                                                    |
| <b>Storage Buffer</b> | PBS, 10 mM PB, 150 mM NaCl, pH 7.2                                                                                                   |

## 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>  | QHD43416                                                                                             |

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