

## COVID 19 Spike RBD Brazil Variant Coronavirus Recombinant Protein | COVID-19 recombinant protein

Recombinant Spike RBD Protein of SARS-CoV-2 Brazil Variant

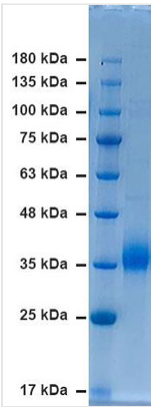
|                              |                             |                                            |
|------------------------------|-----------------------------|--------------------------------------------|
| CATALOG #<br><b>AAA62224</b> | HOST<br><b>HEK293 Cells</b> | APPLICATIONS<br><b>ELISA, Western Blot</b> |
|------------------------------|-----------------------------|--------------------------------------------|

### PRODUCT SYNONYMS

COVID 19 Spike RBD Brazil Variant Coronavirus; Recombinant Spike RBD Protein of SARS-CoV-2 Brazil Variant; 2019 Novel Coronavirus; Coronavirus; CoV; COVID-19 virus; HCoV-2; Human Coronavirus 2019; SARS2; SARS-CoV-2; Severe acute respiratory syndrome coronavirus 2; Spike RBD Brazil Variant; COVID-19 recombinant protein

### PRODUCT SPECIFICATIONS

|                                                          |                                                                                                                                                                                                                                                             |
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| Host                                                     | HEK293 Cells                                                                                                                                                                                                                                                |
| Purity/Purification                                      | ≥ 95% (by SDS-PAGE)                                                                                                                                                                                                                                         |
| Concentration                                            | 1 ug/ul in PBS (varies by lot)                                                                                                                                                                                                                              |
| Sequence                                                 | RVQPTESIVR FPNITNLCPF GEVFNATRFA SVYAWNKRRI SNCVADYSVL YNSASFSTFK CYGVSPTKLN<br>DLCFTNVYAD SFVIRGDEV R QIAPGQTGTI ADYNYKLPDD FTGCVIAWNS NNLDKVGNY NYLYRLFRKS<br>NLKPFERDIS TEIQAGSTP CNGVKGFNCY FPLQSYGFQP TYGVGYQPYR VVLSFELLH APATVCGPKK<br>STNLVKNKCV NF |
| Applicable Applications for COVID-19 recombinant protein | ELISA, WB (Western Blot)                                                                                                                                                                                                                                    |
| Host Note                                                | Glycosylated recombinant viral protein expressed and purified from HEK293 cells                                                                                                                                                                             |
| Viral Protein                                            | Spike RBD domain protein of human SARS-CoV-2 Brazil variant (GISAID No. EPI_ISL_833172) with a C-terminal His-tag                                                                                                                                           |
| Endotoxin Level                                          | <0.1 EU per ug of purified protein by LAL test                                                                                                                                                                                                              |
| Dry Ice Note                                             | The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.                                                                                                                                                          |
| Preparation and Storage                                  | Store at -20°C. Stable for 3 months from the date of shipment when kept at 4°C. Non-hazardous, no MSDS required.                                                                                                                                            |



**SDS-PAGE**  
Purified recombinant spike RBD (K417T, E484K, N501Y) protein of SARS-CoV-2 Brazil variant

ADDITIONAL INFORMATION

|                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Related Product Information for COVID-19 recombinant protein</b></p> | <p><b>Description:</b> Recombinant spike RBD (K417T, E484K, N501Y) protein of SARS-CoV-2 Brazil variant (B.1.1.248) expressed and purified from HEK293 cells. The binding activity has been tested using human ACE2 protein in a functional ELISA assay.</p> <p><b>Introduction:</b> Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is the virus that causes COVID-19 (coronavirus disease 2019), the respiratory illness responsible for the COVID-19 pandemic. Many SARS-CoV-2 variants have been identified throughout the world since its outbreak in late 2019; some are believed or have been believed to be of particular importance due to their potential for increased transmissibility, increased virulence, and reduced effectiveness of vaccines against them.</p> <p>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 Nucleoprotein 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.</p> |
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**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.