

# Recombinant COVID-19 Spike RBD (K417N) protein, His-tagged

Cat. No. Spike-344V Lot. No. (See product label)

## SPECIFICATION

**Product Overview** A DNA sequence encoding the SARS-CoV-2 (2019-nCoV) Spike RBD(K417N)-His Recombinant Protein (YP\_009724390.1) (Arg319-Phe541(K417N)) was expressed in HEK293 cells with a polyhistidine tag at the C-terminus.

**Species** Sars-CoV-2

**Source** HEK293

**ProteinLength** Arg319-Phe541

**Predicted N Terminal** Arg319

**Form** Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

**Molecular Mass** The recombinant SARS-CoV-2 (2019-nCoV) Spike RBD(K417N)-His Recombinant Protein consists of 234 amino acids and predicts a molecular mass of 26.5 kDa.


**Endotoxin** < 1.0 EU per µg protein as determined by the LAL method.

**Purity** > 85 % as determined by SDS-PAGE.

**Stability** Samples are stable for up to twelve months from date of receipt at -20°C to -80°C

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|                       |  |
|-----------------------|--|
| <b>Storage</b>        | Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.   |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.   |
| <b>Shipping</b>       | In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature.<br>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise. |

## GENE INFORMATION

|                        |  |
|------------------------|--|
| <b>Gene Name</b>       | S  |
| <b>Official Symbol</b> | S  |
| <b>Synonyms</b>        | coronavirus spike Protein, 2019-nCoV; cov spike Protein, 2019-nCoV; ncov RBD Protein, 2019-nCoV; ncov s1 Protein, 2019-nCoV; ncov s2 Protein, 2019-nCoV; ncov spike Protein, 2019-nCoV; NCP-CoV RBD Protein, 2019-nCoV; NCP-CoV s1 Protein, 2019-nCoV; NCP-CoV s2 Protein, 2019-nCoV; NCP-CoV Spike Protein, 2019-nCoV; novel coronavirus RBD Protein, 2019-nCoV; novel coronavirus s1 Protein, 2019-nCoV; novel coronavirus s2 Protein, 2019-nCoV; novel coronavirus spike Protein, 2019-nCoV; RBD Protein, 2019-nCoV; S1 Protein, 2019-nCoV; S2 Protein, 2019-nCoV; Spike RBD Protein, 2019-nCoV |
| <b>Gene ID</b>         | 43740568   |
| <b>Protein Refseq</b>  | YP_009724390.1   |
| <b>UniProt ID</b>      | P0DTC2   |

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