

Recombinant COVID-19 S protein RBD(N354D), His-tagged

Cat. No. Spike-213V **Lot. No.** (See product label)

SPECIFICATION

| | |
|-----------------------------|---|
| Product Overview | Recombinant COVID-19 S protein RBD (N354D, Arg319-Phe541) was fused to His-tag at the C-terminus and expressed in human 293 cells (HEK293). |
| Species | Sars-CoV-2 |
| Source | HEK293 |
| ProteinLength | Arg319-Phe541 |
| Description | It's been reported that COVID-19 can infect the human respiratory epithelial cells through interaction with the human ACE2 receptor. The spike protein is a large type I transmembrane protein containing two subunits, S1 and S2. S1 mainly contains a receptor binding domain (RBD), which is responsible for recognizing the cell surface receptor. S2 contains basic elements needed for the membrane fusion. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity. |
| Predicted N Terminal | Arg319 |
| Form | Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose. |
| Molecular Mass | The protein has a calculated MW of 27.0 kDa. The protein migrates as 33-35 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation. |
| Endotoxin | Less than 1.0 EU per µg by the LAL method. |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

| | |
|-----------------------|---|
| Purity | >95% as determined by SDS-PAGE. |
| Storage | <p>For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <p>-20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.</p> |
| Reconstitution | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents. |

GENE INFORMATION

| | |
|------------------------|--------------------|
| Gene Name | S |
| Official Symbol | S |
| Synonyms | spike glycoprotein |
| Gene ID | 43740568 |
| Protein Refseq | YP_009724390.1 |
| UniProt ID | P0DTC2 |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA