

# Active Recombinant SARS-CoV-2 (2019-nCoV) Spike S1(D614G) Protein, His-tagged, HPLC-verified

Cat. No. S-491S Lot. No. (See product label)

## SPECIFICATION

|                             |   |
|-----------------------------|---|
| <b>Product Overview</b>     | Recombinant SARS-CoV-2 (2019-nCoV) Spike S1(D614G)-His Recombinant Protein (YP_009724390.1) (Val16-Arg685(D614G)) was expressed in HEK293 cell with a polyhistidine tag at the C-terminus.  |
| <b>Species</b>              | SARS-CoV-2  |
| <b>Source</b>               | HEK293  |
| <b>ProteinLength</b>        | 16-685  |
| <b>Predicted N Terminal</b> | Val 16  |
| <b>Bio-activity</b>         | <p>1. Measured by its binding ability in a functional ELISA. Immobilized human ACE2 protein (Fc tag) at 2 µg/mL (100 µL/well) can bind 2019-nCoV S1(D614G)h, the EC50 of 2019-nCoV S1(D614G)h is 250-650 ng/mL.</p> <p>2. Loaded ACE2 Protein, Human, Recombinant (mFc Tag) on AMC Biosensor, can bind SARS-CoV-2 (2019-nCoV) Spike S1(D614G)-His Recombinant Protein with an affinity constant of 57.7 nM as determined by Octet RED System.</p> |
| <b>Molecular Mass</b>       | The recombinant SARS-CoV-2 (2019-nCoV) Spike S1(D614G)-His Recombinant Protein consists of 681 amino acids and predicts a molecular mass of 76.41 kDa.  |
| <b>Endotoxin</b>            | < 1.0 EU/µg protein as determined by the LAL method.  |

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| <b>Purity</b>         | > 90 % as determined by SDS-PAGE. > 90 % as determined by SEC-HPLC.   |
| <b>Storage</b>        | <p>Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.</p> <p>Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> |
| <b>Storage Buffer</b> | <p>Lyophilized from sterile PBS, pH 7.4.</p> <p>Please contact us for any concerns or special requirements.</p> <p>Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.</p>  |

## GENE INFORMATION

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|------------------------|--|
| <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>  | YP_009724390   |
| <b>SDS-PAGE</b>        |  |
| <b>Activity</b>        |  |