

Active Recombinant COVID-19 Spike protein RBD(N501Y), His-tagged

Cat. No. Spike-145V Lot. No. (See product label)

SPECIFICATION

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| Product Overview | A DNA sequence encoding the COVID-19 Spike RBD(N501Y)-His Recombinant Protein (YP_009724390.1) (Arg319-Phe541(N501Y)) was expressed with a polyhistidine tag at the C-terminus. |
| Species | Sars-CoV-2 |
| Source | HEK293 |
| ProteinLength | Arg319-Phe541(N501Y) |
| Form | Lyophilized from sterile PBS, pH 7.4 |
| Bio-activity | <ol style="list-style-type: none">1. Measured by its binding ability in a functional ELISA. Immobilized human ACE2 protein (mFc tag) at 2 µg/mL (100 µL/well) can bind SARS-CoV-2 (2019-nCoV) Spike RBD(N501Y)-His, the EC₅₀ of SARS-CoV-2 (2019-nCoV) Spike RBD(N501Y)-His is 3-20 ng/mL.2. Loaded ACE2 Protein, Human, Recombinant (mFc Tag) on AMC Biosensor, can bind SARS-CoV-2 (2019-nCoV) Spike RBD(N501Y)-His Recombinant Protein with an affinity constant of 0.827 nM as determined by Octet RED96e system. |
| Molecular Mass | The recombinant SARS-CoV-2 (2019-nCoV) Spike RBD(N501Y)-His Recombinant Protein consists of 234 amino acids and predicts a molecular mass of 26.6 kDa. As a result of glycosylation, it migrates as an approximately 35 kDa band in SDS-PAGE under reducing conditions. |

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| Endotoxin | < 1.0 EU per µg of the protein as determined by the LAL method |
| Purity | > 95 % as determined by SDS-PAGE. |
| Storage | Samples are stable for up to twelve months from date of receipt at -20°C to -80°C 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. |
| 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. |

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