

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

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

SPECIFICATION

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	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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