

# Active Recombinant SARS-CoV-2 (2019-nCoV) Spike RBD(N501Y) Protein, His-tagged

Cat. No. S-437S Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant SARS-CoV-2 (2019-nCoV) Spike RBD(N501Y)-His Recombinant Protein (YP_009724390.1) (Arg319-Phe541(N501Y)) 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>	319-541
<b>Predicted N Terminal</b>	Arg 319
<b>Bio-activity</b>	<ol style="list-style-type: none"><li>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.</li><li>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.</li></ol>
<b>Molecular Mass</b>	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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<b>Endotoxin</b>	< 1.0 EU/μg protein as determined by the LAL method.
<b>Purity</b>	> 95 % as determined by SDS-PAGE.
<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

<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>	

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