

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

Cat. No. nCoV-125V **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant COVID-19 S(RBD) protein(YP_009724390.1)(Arg319-Phe541) was fused to His-tagged and expressed in HEK293.
Species	Sars-CoV-2
Source	HEK293
Description	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is an enveloped, positive-sense, single-stranded RNA virus that causes coronavirus disease 2019 (COVID-19). Virus particles include the RNA genetic material and structural proteins needed for invasion of host cells. Once inside the cell the infecting RNA is used to encode structural proteins that make up virus particles, nonstructural proteins that direct virus assembly, transcription, replication and host control and accessory proteins whose function has not been determined.~ The structural proteins of SARS-CoV-2 include the envelope protein (E), spike or surface glycoprotein (S), membrane protein (M) and the nucleocapsid protein (N). The spike glycoprotein is found on the outside of the virus particle and gives coronavirus viruses their crown-like appearance. This glycoprotein mediates attachment of the virus particle and entry into the host cell. S protein is an important target for vaccine development, antibody therapies and diagnostic antigen-based tests.
Form	Liquid in sterile PBS, pH 7.4.
Bio-activity	Immobilized SARS S protein RBD, His Tag at 2 µg/mL (100 µL/well) can bind

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	Monoclonal Anti-SARS-CoV-S protein RBD Antibody, the EC50 of SARS-CoV-2/2019-nCoV Spike Protein (RBD, His Tag) is 35.1 ng/mL.
Molecular Mass	The recombinant SARS-CoV-2 (2019-nCoV) Spike Protein (RBD, His Tag) predicts a molecular mass of 26 kDa.
AA Sequence	Arg319-Phe541 (YP_009724390.1) with a polyhistidine tag at the C-terminus.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Purity	> 95 % by SDS-PAGE and HPLC analyses.
Storage	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.
Concentration	1.0 mg/ml. Centrifuge the vial 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

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