

Recombinant SARS-COV-2 Spike RBD Protein

Catalog No: CARP01258

Category: Recombinant Protein

Description: Recombinant 2019-nCoV Spike RBD-His Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Arg319-Phe541) of 2019-ncov Spike RBD-His (Accession #YP_009724390.1) fused with a 6×His tag at the C-terminus

Bio-Activity: Measured by its binding ability in a functional ELISA. Immobilized Recombinant SARS-COV-2 Spike RBD His at 2 μ g/mL (100 μ L/well) can bind Recombinant Human ACE2 with a linear range of 0.15-4.53 ng/mL. Immobilized human ACE2 on COOH Chip, can bind SARS-COV-2 Spike RBD Protein with an affinity constant of 36.7 nM as determined in a SPR assay (Nicoya OpenSPR).

Sequence Information

Species: SARS-COV-2

Gene ID: 43740568

Tags: 6×His tag at the C-terminus

Product Information

Synonyms: S1-RBD protein; NCP-CoV RBD Protein; novel coronavirus RBD Protein; 2019-nCoV RBD Protein; S glycoprotein Subunit1 RBD Protein

Source: HEK293 cells

Purity: >90% by SDS-PAGE; > 95% by HPLC

Endotoxin: < 0.1 EU/ μ g of the protein by LAL method.

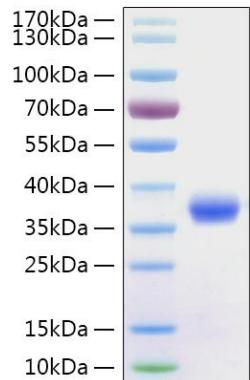
Formulation: Lyophilized from a 0.22 μ m filtered solution of PBS, pH 7.4. or Supplied as a 0.22 μ m filtered solution in PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution: For lyophilized protein : Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water

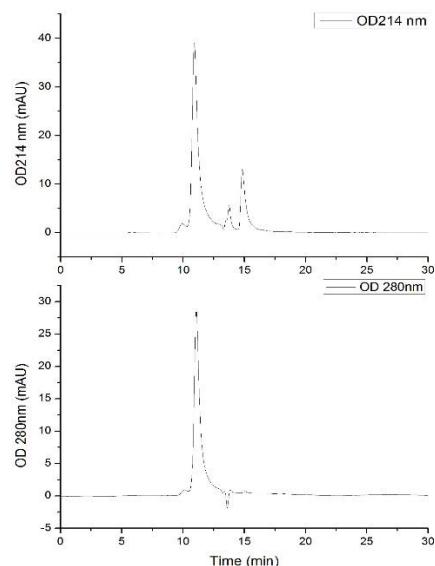
Storage: Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. or This product is stable at \leq -70°C for up to 6 months from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze/thaw cycles.

Background

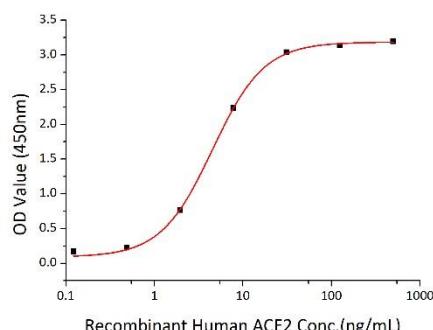
Validated Data



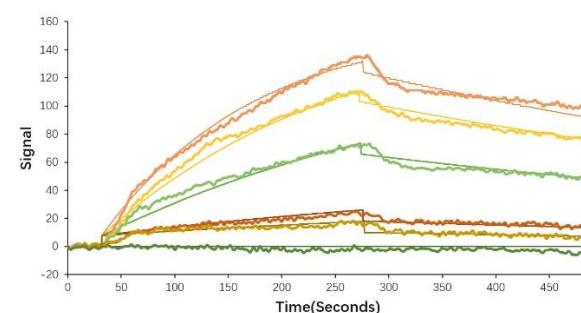
Recombinant SARS-CoV-2 Spike RBD Protein with His tag was determined by SDS-PAGE with Coomassie Blue, showing a band at 36 kDa.



The purity of SARS-CoV-2 Spike RBD Protein with His tag (Cat.CARP01258) was greater than 95% as determined by SEC-HPLC.



Immobilized Recombinant SARS-CoV-2 Spike RBD-His at 2 μ g/mL (100 μ L/well) can bind Recombinant Human ACE2 with a linear range of 0.15-4.53 ng/mL.



Immobilized human ACE2 on COOH Chip, can bind SARS-CoV-2 Spike RBD Protein with an affinity constant of 36.7 nM as determined in a SPR assay (Nicoya OpenSPR).

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