

32-190029: Recombinant 2019-nCoV Spike RBD Protein His tag

Application : Functional Assay
Gene ID : 43740568
Alternative Name : S1-RBD protein; NCP-CoV RBD Protein; novel coronavirus RBD Protein; 2019-nCoV RBD Protein; S glycoprotein Subunit1 RBD Protein

Description

Source: HEK293 cells.

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

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

Product Info

Amount : 100 μg
Purification : > 95% by SDS-PAGE; > 95% by HPLC
Content : Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4 or Supplied as a 0.22 μm filtered solution in PBS, pH 7.4.
Storage condition : 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. This liquid product is stable at ≤ ?70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.
Amino Acid : The target protein is expressed with sequence (Arg319-Phe541) of 2019-ncov Spike RBD (Accession #YP_009724390.1) fused with a 6xHis tag at the C-terminus.

Application Note

Measured by its binding ability in a functional ELISA. Immobilized Recombinant 2019-nCoV Spike RBD Protein at 2μg/mL (100 μL/well) can bind Recombinant Human ACE2 with a linear range of 0.12-9.06 ng/mL.

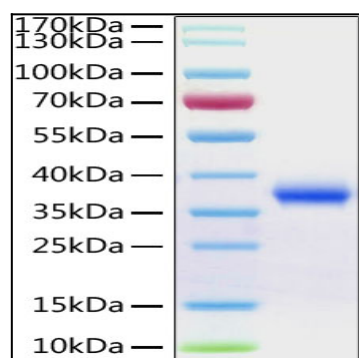


Fig 1 : Recombinant 2019-nCoV Spike RBD Protein with His tag was determined by SDS-PAGE with Coomassie Blue, showing a band at 36 kDa.

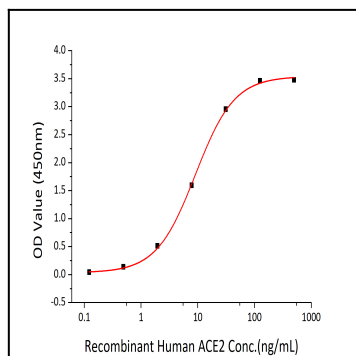


Fig 2 : Immobilized Recombinant 2019-nCoV Spike RBD Protein at 2 μ g/mL (100 μ L/well) can bind Recombinant Human ACE2 with a linear range of 0.12-9.06 ng/mL.

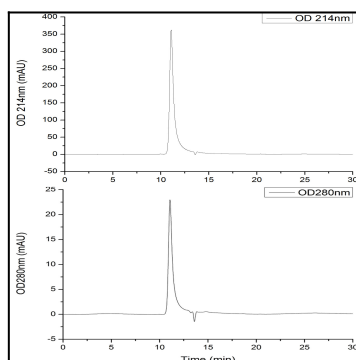


Fig 3 : The purity of 2019-nCoV Spike RBD Protein with His tag was greater than 95% as determined by SEC-HPLC