

9853 Pacific Heights Blvd. Suite D. San Diego, CA 92121, USA Tel: 858-263-4982

Email: info@abeomics.com

32-190030: Recombinant SARS-CoV-2 Spike S1 Protein His tag

Application : Functional Assay **Gene ID :** 43740568

Alternative Name: S1 protein; Spike glycoprotein Subunit1; S glycoprotein Subunit1; Spike protein S1; novel coronavirus

s1 Protein

Description

Source: HEK293 cells.

Endotoxin: $< 0.1 \text{ EU/}\mu\text{g}$ of the protein by LAL method.

Recombinant 2019-nCoV Spike S1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Val11-Arg682) of 2019-ncov Spike S1 (Accession #YP_009724390.1) fused with a 6×His tag at the C-terminus

Product Info

Amount: $100 \mu g$

Purification: > 90% by SDS-PAGE.

Content: Lyophilized from a 0.22 Î¹/₄m filtered solution of PBS, pH 7.4. or Supplied as a 0.22 Î¹/₄m filtered

solution in PBS, pH 7.4.

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 product is stable at

Storage condition : $\hat{a} \approx -70^{\circ}\text{C}$ for up to 6 months from the date of receipt. For optimal storage, aliquot into smaller

quantities after centrifugation and store at recommended temperature.

Amino Acid: The target protein is expressed with sequence (Val11-Arg682) of 2019-ncov Spike S1 (Accession

#YP 009724390.1) fused with a 6×His tag at the C-terminus.

Application Note

Measured by its binding ability in a functional ELISA. Immobilized Recombinant 2019-nCoV Spike S1-His at $2\mu g/mL$ (100 $\mu L/well$) can bind Recombinant Human ACE2 with a linear range of 1.5-36.5 ng/mL.|Immobilized Human ACE2 on COOH Chip, can bind 2019-nCoV Spike S1 with an affinity constant of 27.3 nM as determined in a SPR assay (Nicoya OpenSPR).



Fig 1 : Recombinant 2019-nCoV Spike S1 Protein with His tag was determined by SDS-PAGE with Coomassie Blue, showing a band at 110-130 kDa.



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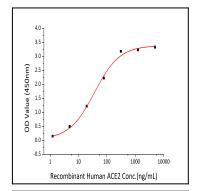


Fig 2 :Immobilized Recombinant 2019-nCoV Spike S1-His at $2\hat{1}\frac{1}{4}g/mL$ (100 $\hat{1}\frac{1}{4}L/well$) can bind Recombinant Human ACE2 with a linear range of 1.5-36.5 ng/mL.

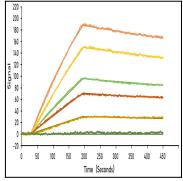


Fig 3 :Immobilized Human ACE2 on COOH Chip, can bind 2019-nCoV Spike S1 with an affinity constant of 27.3 nM as determined in a SPR assay (Nicoya OpenSPR).