

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

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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: $< 0.1 \text{ EU/}\mu g$ 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 : Purification :	100 μg > 90% by SDS-PAGE.
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 product is stable at \hat{a} ‰¤ -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.
Amino Acid :	The target protein is expressed with sequence (Val11-Arg682) of 2019-ncov Spike S1 (Accession $\#$ YP_009724390.1) fused with a 6 \tilde{A} —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 2µg/mL (100 µL/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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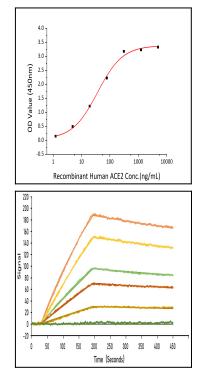


Fig 2 :Immobilized Recombinant 2019-nCoV Spike S1-His at $2\hat{1}_{4}^{1}g/mL$ (100 $\hat{1}_{4}^{1}L/well$) can bind Recombinant Human ACE2 with a linear range of 1.5-36.5 ng/mL.

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).