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# Recombinant 2019-nCoV Spike S1 Protein with His-Tag

(Catalog # E80007)

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## Description

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 6xHis tag at the C-terminus.

## Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Recombinant SARS-COV-2 Spike S1-His at 2ug/mL (100 uL/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 SARS-COV-2 Spike S1 with an affinity constant of 27.3 nM as determined in a SPR assay (Nicoya OpenSPR).

## Purity

> 90% by SDS-PAGE.

## Endotoxin

< 0.1 EU/ug of the protein by LAL method.

## Formulation

Lyophilized from a 0.22 um filtered solution of PBS, pH 7.4. or Supplied as a 0.22 um filtered solution in PBS, pH 7.4.

## Species

SARS-COV-2

## Calculated MW

76kDa

## Expressed Host

HEK293 cells

## Tag

6xHis tag at the C-terminus

## Gene ID

43740568

## 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 ≤ -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.

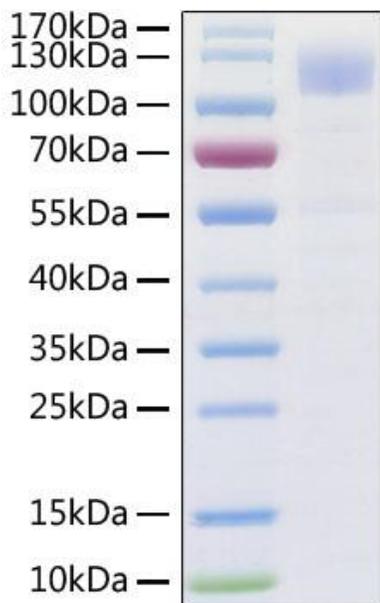
## Reconstitution

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

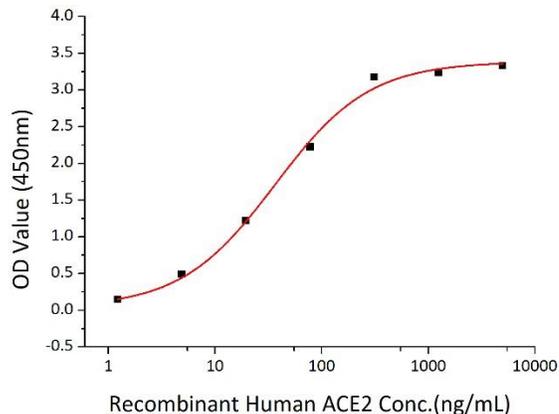
## Alternative Names

S1 protein; Spike glycoprotein Subunit1; S glycoprotein Subunit1; Spike protein S1; novel coronavirus s1 Protein

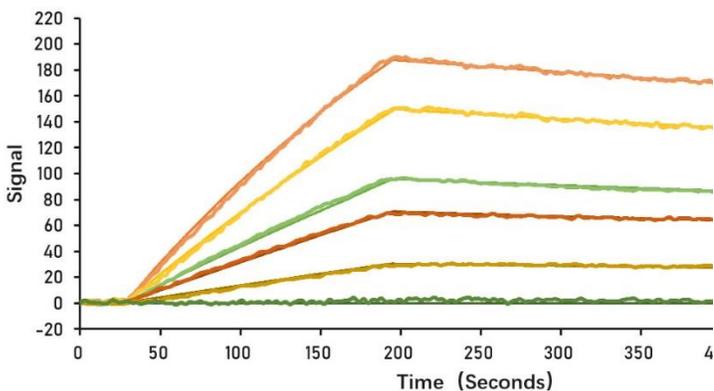
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Recombinant 2019-nCoV Spike S1 Protein with His-Tag was determined by SDS-PAGE with Coomassie Blue, showing a band at 110-130 kDa.



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).