

## SARS-CoV-2 Spike S1 Recombinant Protein

CARP01261

### Protein Information

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|-----------------------|------------|------------------------|--------------|
| <b>Size:</b>          | 100 µg     | <b>Tag:</b>            | C-His&Avi    |
| <b>Reactivity:</b>    | SARS-CoV-2 | <b>Expressed Host:</b> | HEK293 cells |
| <b>Calculated MW:</b> | 77.67 kDa  | <b>Observed MW:</b>    | 110-120 kDa  |

### Background

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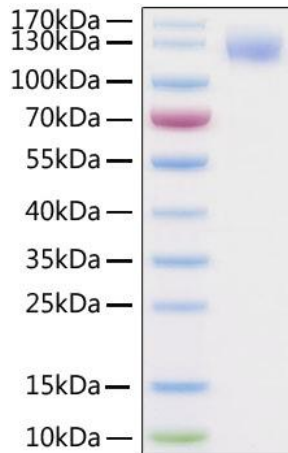
The spike protein (S) of coronavirus (CoV) attaches the virus to its cellular receptor, angiotensin-converting enzyme 2 (ACE2). A defined receptor-binding domain (RBD) on S mediates this interaction. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity.

### Properties

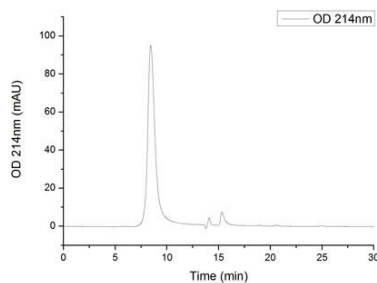
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|---------------------|---|
| <b>Synonyms:</b>    | Envelope, SARS-CoV-2 Spike RBD (N501Y), Spike, Spike ECD, Spike RBD, Spike S1, Spike S2, Spike S2 ECD, S1-RBD protein, NCP-CoV RBD Protein, novel coronavirus RBD Protein, 2019-nCoV RBD Protein, S glycoprotein Subunit1 RBD Protein |
| <b>Gene ID:</b>     | 43740568  |
| <b>Endotoxin:</b>   | < 1 EU/µg of the protein by LAL method.   |
| <b>Description:</b> | High quality, high purity and low endotoxin recombinant Recombinant SARS-CoV-2 Spike S1 Protein (CARP01261), tested reactivity in HEK293 cells and has been validated in SDS-PAGE. 100% guaranteed.                                   |
| <b>Purity:</b>      | ≥ 95 % as determined by SDS-PAGE; ≥ 95 % as determined by HPLC.   |
| <b>Storage:</b>     | Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.                        |

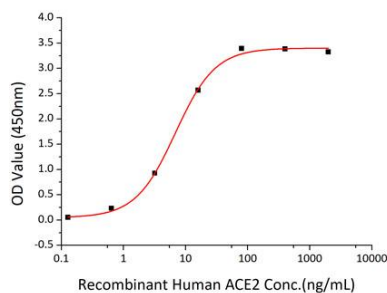
## Validation Data



Recombinant SARS-CoV-2 Spike S1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



The purity of SARS-COV-2 Spike S1 Protein with His and Avi tag (CARP01261) was greater than 95% as determined by SEC-HPLC.



Immobilized Recombinant SARS-CoV-2 Spike S1 at 2 $\mu$ g/mL (100  $\mu$ L/well) can bind recombinant Human ACE2 with a linear range of 0.15-6.85 ng/mL.