# SARS-CoV-2 Spike S1 Recombinant Protein

# CARP01259

## Protein Information

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|---|---|---|---|
| **Size:** | 100 µg | **Tag:** | C-hFc&His |
| **Reactivity:** | SARS-CoV-2 | **Expressed Host:** | HEK293 cells |
| **Calculated MW:** | 101.92 kDa | **Observerd MW:** | 130-160 kDa |

## Background

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 thisinteraction.The S protein plays key parts in the induction of neutralizing-antibody and T-cellresponses, as well as protective immunity.

## Properties

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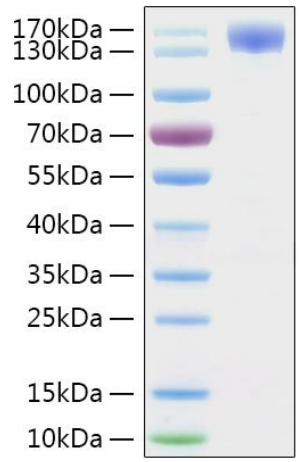
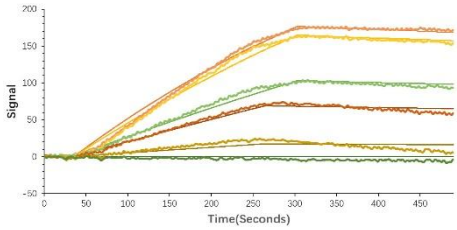
| **Synonyms:** | Envelope, SARS-CoV-2 Spike RBD (N501Y), Spike, Spike ECD, Spike RBD, Spike S1, Spike S2, Spike S2 ECD, S1-RBD protein, NCP-CoV RBD Protein, novel coronavirus RBD Protein, 2019-nCoV RBD Protein, S glycoprotein Subunit1 RBD Protein |
| **Gene ID:** | 43740568 |
| **Endotoxin:** | < 0.1 EU/µg of the protein by LAL method. |
| **Description:** | High quality, high purity and low endotoxin recombinant Recombinant SARS-CoV-2 Spike S1 Protein (CARP01259), tested reactivity in HEK293 cells and has been validated in SDS-PAGE.100% guaranteed. |
| **Purity:** | ≥ 90 % as determined by SDS-PAGE. |
| **Storage:** | Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ 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.




Immobilized Human ACE2 on COOH Chip, can bind SARS-COV-2 Spike S1 with an affinity constant of 90.8 nM as determined in a SPR assay (Nicoya OpenSPR).