## Synonym

Spike,S2 protein,Spike glycoprotein Subunit2,S glycoprotein Subunit2,Spike protein S2

## Source

SARS-CoV-2 S2 protein, His Tag (S2N-C52H2) is expressed from human 293 cells (HEK293).

## Molecular Characterization

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 60.0 kDa. The protein migrates as 65-115 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per μg by the LAL method.

## Purity

>90% as determined by SDS-PAGE.

## Formulation

Supplied as 0.2 μm filtered solution in 20 mM PB, 300 mM NaCl, pH7.4 with glycerol as protectant.

Contact us for customized product form or formulation.

## Shipping

***This product is supplied and shipped with dry ice, please inquire the shipping cost.***

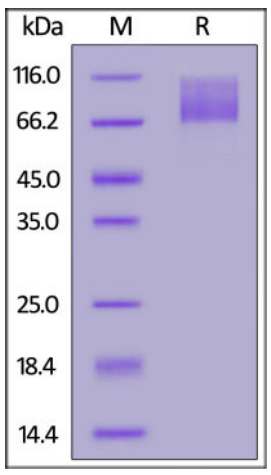
## Storage

***Please avoid repeated freeze-thaw cycles.***

This product is stable after storage at:

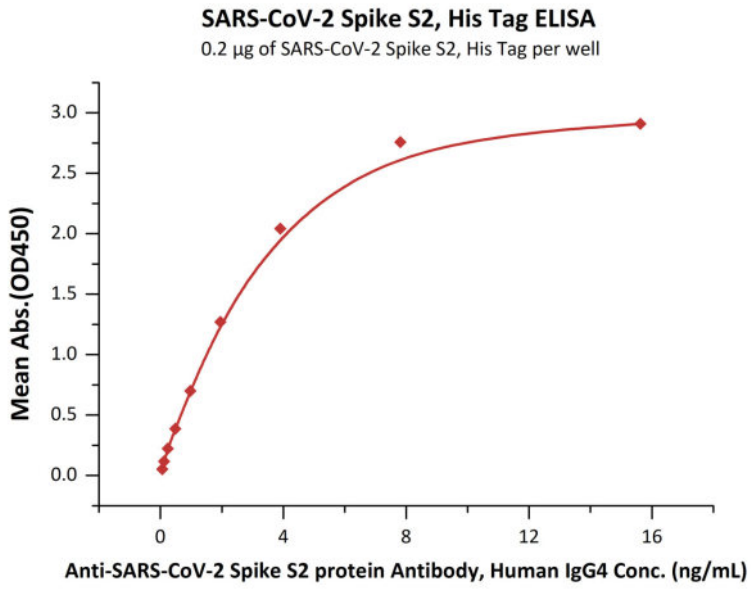
- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

## SDS-PAGE




SARS-CoV-2 S2 protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

## Bioactivity-ELISA




Immobilized SARS-CoV-2 S2 protein, His Tag (Cat. No. S2N-C52H2) at 0.2 μg/mL (100 ug/well) can bind Anti-SARS-CoV-2 Spike S2 protein Antibody, Human IgG4 (AS86) (Cat. No. S2N-S86) with a linear range of 1.5-2.5 ng/mL (QC tested).

## Background

It's been reported that SARS-CoV-2 can infect the human respiratory epithelial cells through interaction with the human ACE2 receptor. The spike protein is a large type I transmembrane protein containing two subunits, S1 and S2. S1 mainly contains a receptor binding domain (RBD), which is responsible for recognizing the cell surface receptor. S2 contains basic elements needed for the membrane fusion.The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity.

## Clinical and Translational Updates