

# Recombinant SARS-CoV-2 Spike S1 (His&Avi Tag)

Cat. No. bs-46004P

www.biossusa.com  
support@biossusa.com  
800.501.7654[DOMESTIC]  
+1.781.569.5821[INTERNATIONAL]

## Description

<b>Protein Sequence</b>	SARS-CoV-2 Spike S1 is expressed with a His tag and Avi at the C-terminal (Gln14-Arg683).
<b>Source</b>	Mammalian Expression System
<b>Accession</b>	QHD43416.1
<b>Mol wt</b>	The protein has a predicted MW of 77.9 kDa. Due to glycosylation, the protein migrates to 110-120KDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per ug by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE >95%as determined by HPLC
<b>Activity assay</b>	Not tested.

## Formulation and Storage

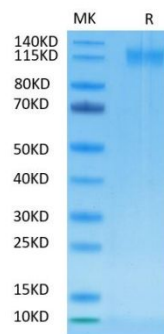
<b>Formulation</b>	Lyophilized powder (Lyophilized from 0.22um filtered solution in 20mM PB (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.)
<b>Storage</b>	The product should be stored at -70°C or -20°C.

## 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 this interaction. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity.

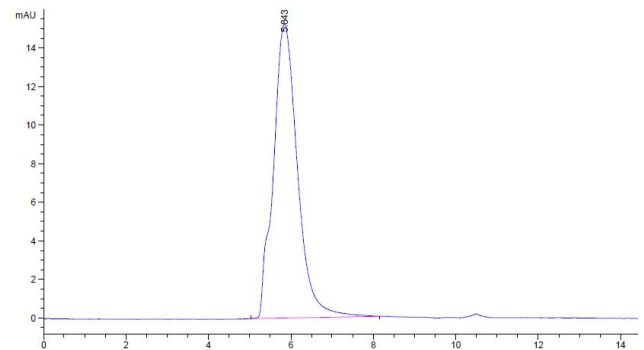
## Assay Data

### Tris-Bis PAGE



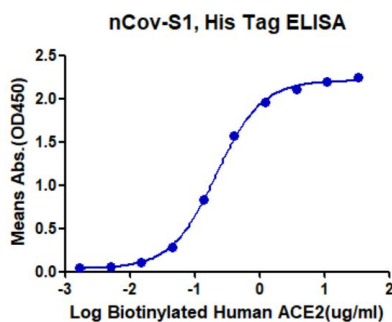
Recombinant SARS-CoV-2 Spike S1 protein on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### HPLC Data



The purity of SARS-CoV-2 Spike S1 is greater than 95% as determined by SEC-HPLC.

### ELISA Data



Immobilized nCov-S1 at 0.5ug/ml(100ul/Well). Dose response curve for Biotinylated Human ACE2 with the EC50 of 0.2ug/ml determined by ELISA.

**Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.**