

# Recombinant 2019 nCoV Spike RBD (Fc&Avi Tag)

Cat. No. bs-46005P

## Description

|                         |                                                                                                                                  |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>Protein Sequence</b> | 2019-nCoV S protein RBD with a Fc tag and Avi at the C-terminal (Arg319-Asn532).                                                 |
| <b>Source</b>           | Mammalian Expression System                                                                                                      |
| <b>Accession</b>        | QHD43416.1                                                                                                                       |
| <b>Mol wt</b>           | The protein has a predicted MW of 51.7kDa. Due to glycosylation, the protein migrates to 60-62KDa 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                                                                                             |
| <b>Purity</b>           | >95%as determined by HPLC                                                                                                        |
| <b>Activity assay</b>   | Not tested.                                                                                                                      |

## Formulation and Storage

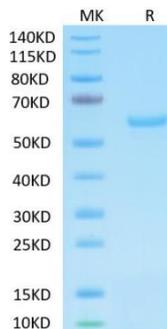
|                    |                                                                                                                                                          |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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.

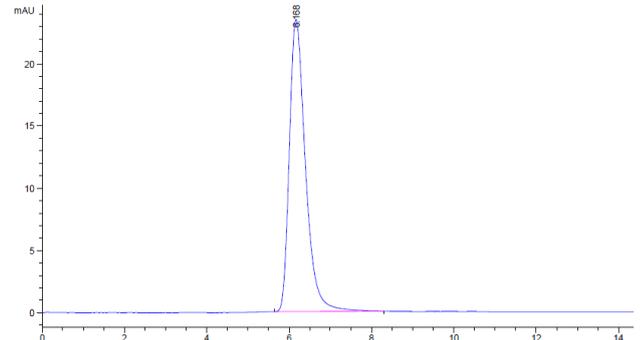
## Assay Data

### Tris-Bis PAGE



Recombinant 2019-nCoV S protein RBD on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### HPLC Data



The purity of 2019-nCoV S protein RBD is greater than 95% as determined by SEC-HPLC