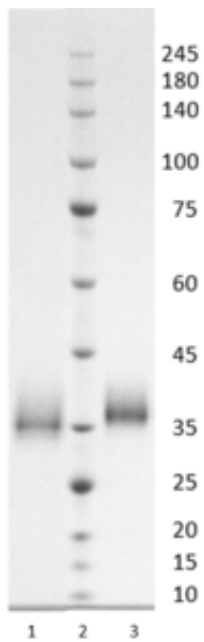




## **SARS-CoV-2 Spike RBD2 South Africa VOC 501.V2 (beta)**

Catalogue #	P-314-100
Description:	Protein contains amino acids 319-541, mutations K417N, E484K, N501Y, plus two extra amino acids (AS) in N-terminus and His-6 tag at C-terminus and GSG linker between protein and tag.
MW:	26.2 kDa
Host:	CHO-based cell line (expressed by QMCF Technology)
Purification:	Metal-affinity chromatography following gel filtration. Protein is sterile-filtrated through 0.22 µm filter.
Purity:	>95%
Concentration:	1 mg/ml
Buffer:	PBS pH 7.4
Endotoxine:	NA
QC:	Coomassie stained SDS-PAGE, analytical SEC, Octet binding to ACE2 receptor
Shipping:	Shipped on dry ice
Storage:	Store at -70°C upon receipt. Recommended to aliquot into smaller quantities. Avoid repeated freeze-thaw cycles

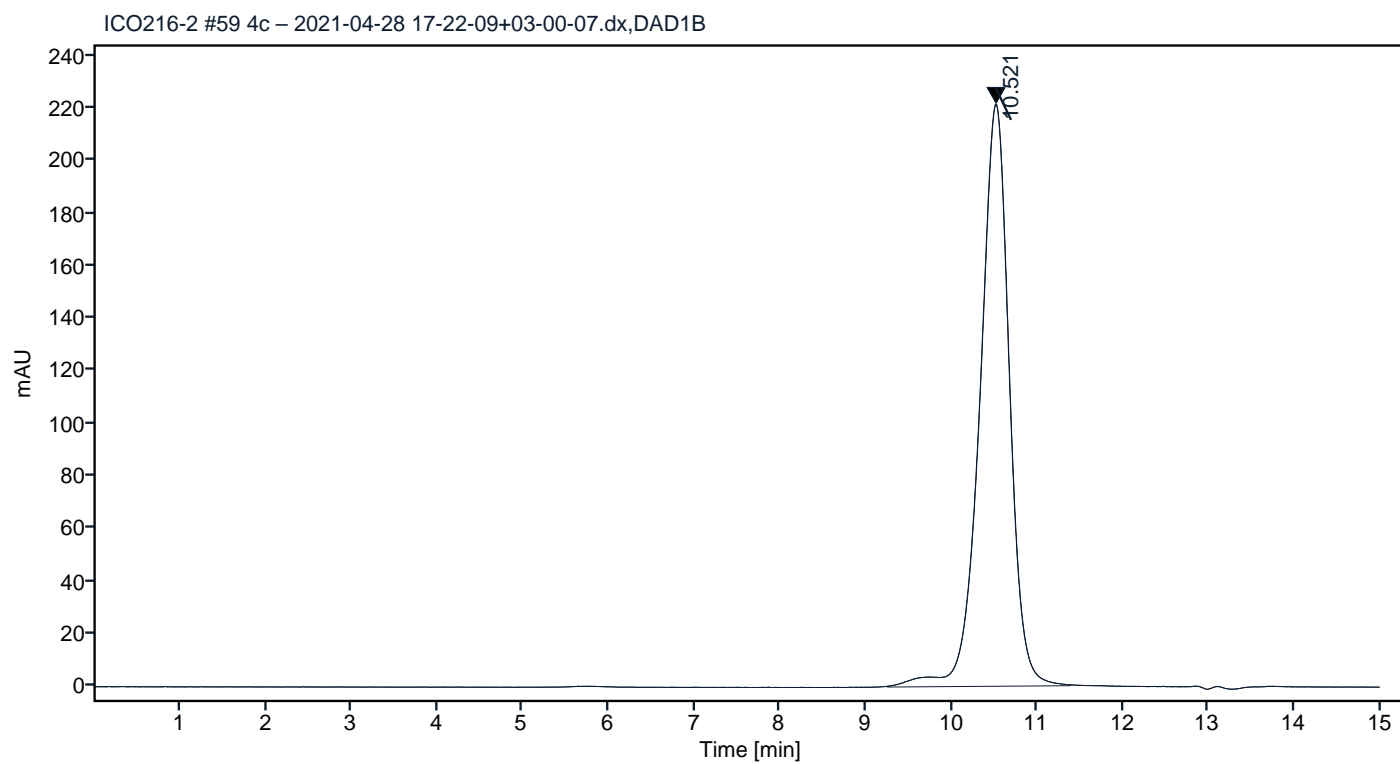


**Figure 1.** Coomassie-stained SDS-PAGE analysis of SARS-CoV-2 Spike RBD2 South Africa VOC 501.V2. 4-15% gradient gel is used for analysis. Lane 1. 1.3  $\mu$ g SARS-CoV-2 Spike RBD2 South Africa VOC 501.V2 (+DTT) Lane 2. Protein marker (Smobio) Lane 3. 1.3  $\mu$ g SARS-CoV-2 Spike RBD2 South Africa VOC 501.V2 (+DTT).

## Peak Table

Peak #	RT (min)	Area	Area %
1	10.521	5307.19	100.00

## Chromatogram

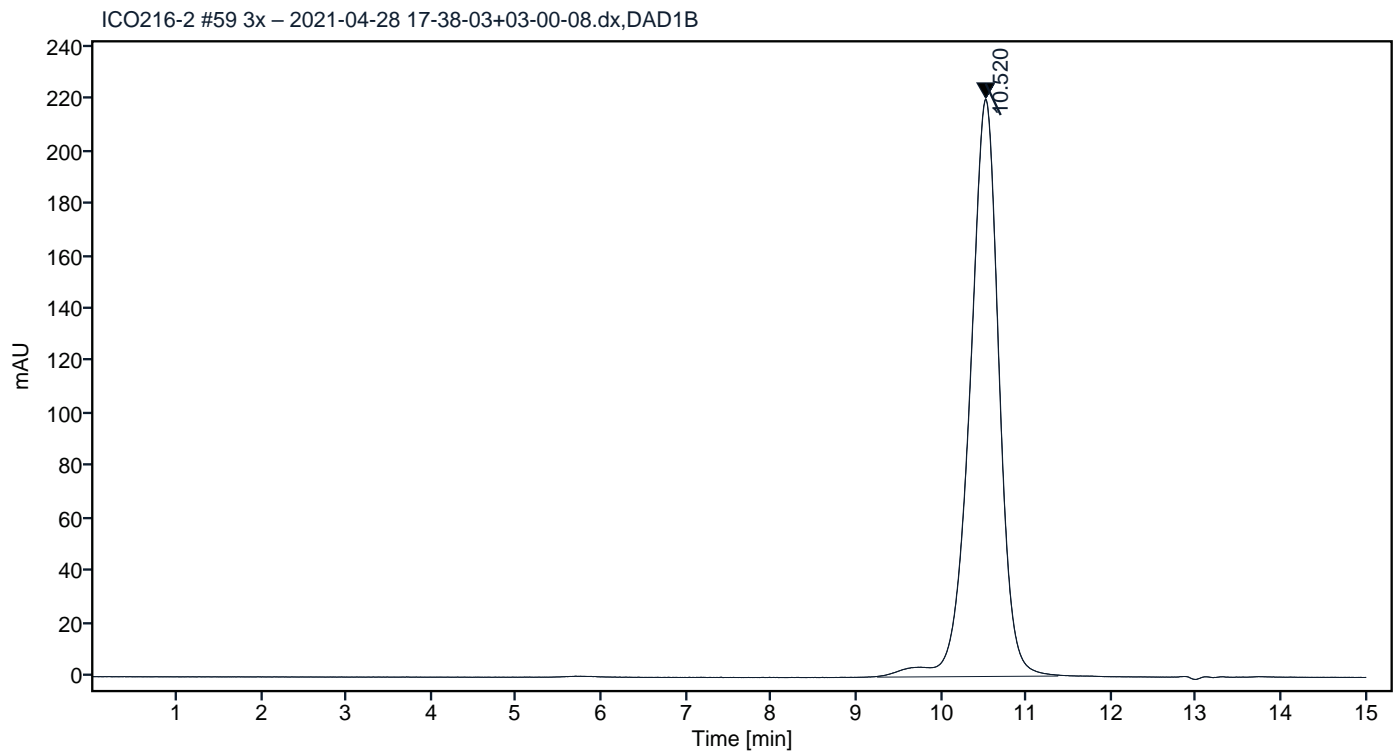


**Figure 2.** HPLC analytical SEC for final product.

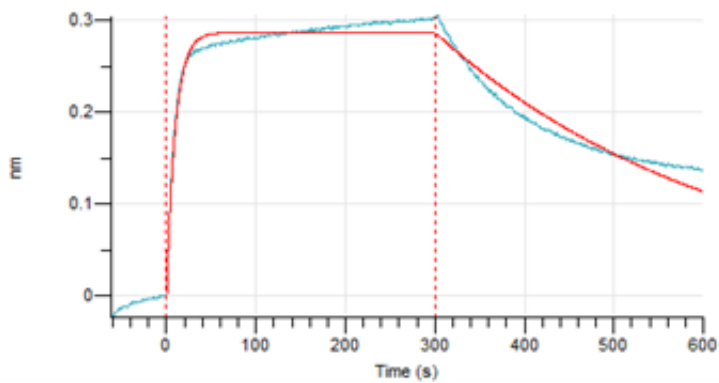
## Peak Table

Peak #	RT (min)	Area	Area %
1	10.520	5271.63	100.00

## Chromatogram



**Figure 3.** HPLC analytical SEC after 3 freeze-thaw cycles.



**Figure 4.** Octet RED96e analysis SARS-CoV-2 Spike RBD2 South Africa VOC 501.V2 binding to the ACE2

receptor.