



SARS-CoV-2 Spike RBD2 B.1.621 (mu)

Catalogue #	P-363-100
Description:	Protein contains amino acids 319-537, mutations R346K, 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.
Uniprot ID:	P0DTC2
MW:	26.3 kDa
Host:	CHO-based cell line (expressed by QMCF Technology)
Purification:	Purified by Ni-affinity chromatography and gel-filtration from serum-free CHO growth media, sterile filtrated
Concentration:	1 mg/ml
Buffer:	PBS pH 7.4
Endotoxine:	NA
Bioproperties:	Measured by its binding ability to ACE2 protein by OCTET RED96 system.
QC:	SDS-PAGE, NanoDrop A280, Analytical SEC, Octet binding to ACE2
Shipping:	Shipped on dry ice.
Storage:	Store at -70°C upon receipt. Recommended to aliquot into smaller quantities. Avoid repeated freeze-thaw cycles

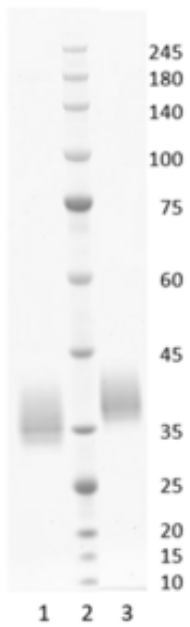


Figure 1. Simply Blue Safe stained SDS-PAGE analysis of SARS-CoV-2 Spike RBD2 B.1.621. 4-12% gradient gel is used for analysis. Lane 1. 0.8 µg SARS-CoV-2 Spike RBD2 B.1.621 (-DTT). Lane 2. Protein marker (Smobio). Lane 3. 0.8 µg SARS-CoV-2 Spike RBD2 B.1.621 (+DTT).

Peak Table

Peak #	RT (min)	Area	Area %
1	9.894	53.75	1.05
2	10.743	5087.75	98.95

Chromatogram

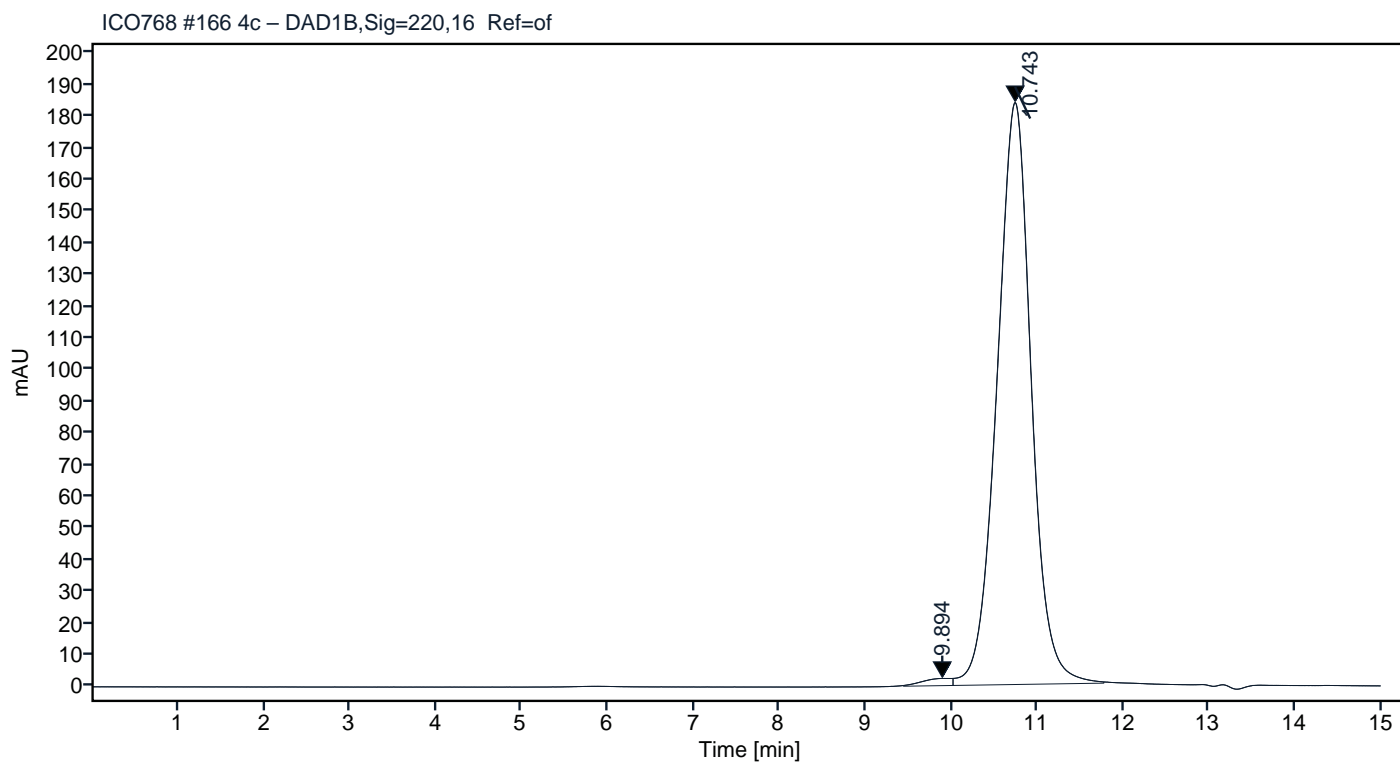


Figure 2. HPLC analytical SEC for final product.

Peak Table

Peak #	RT (min)	Area	Area %
1	9.903	50.55	1.00
2	10.743	4993.84	99.00

Chromatogram

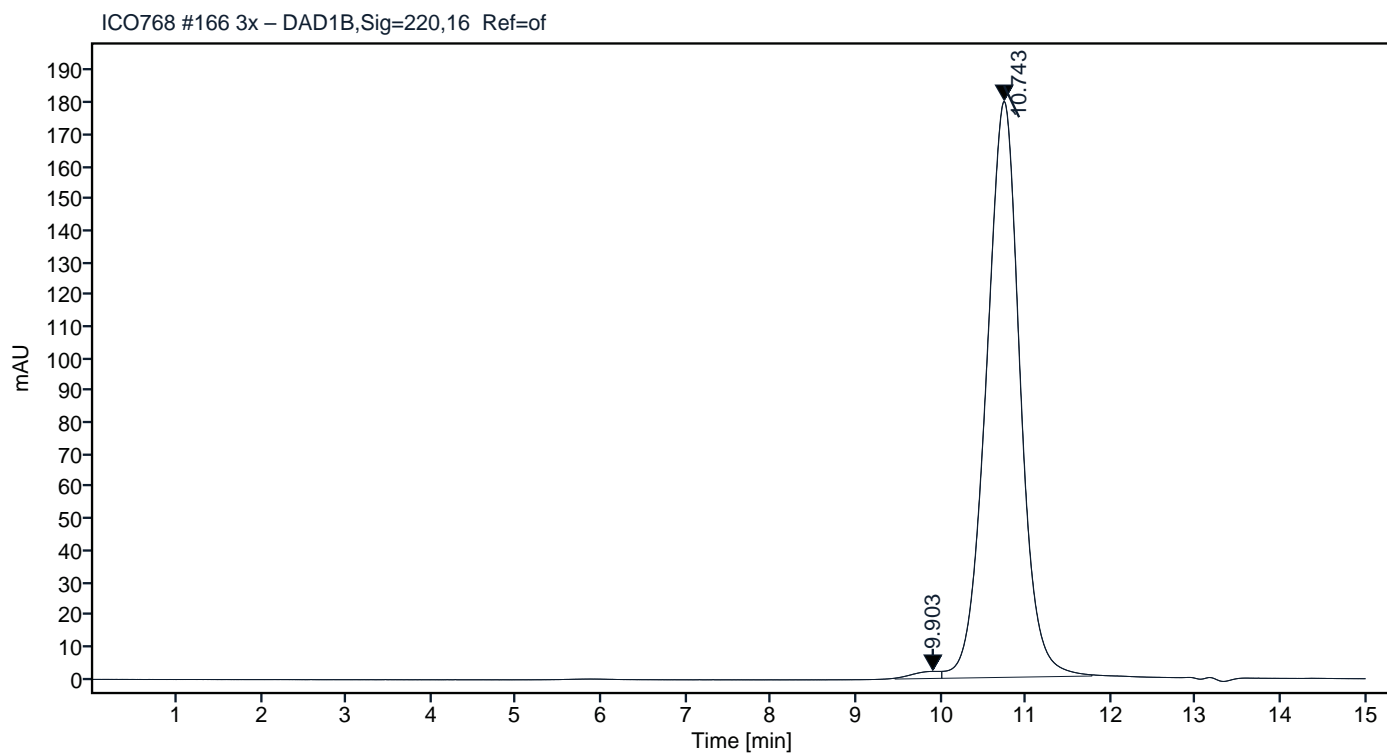


Figure 3. HPLC analytical SEC after 3 freeze-thaw cycles.

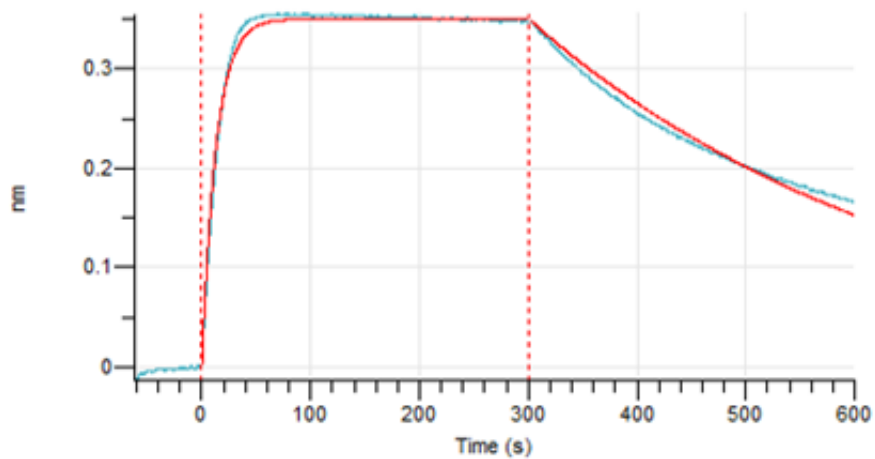


Figure 4. Octet Red96e analysis of SARS-CoV-2 Spike RBD2 B.1.621 binding to human ACE2 receptor.