



SARS-CoV-2 S1 UK B1.1.7 nat

Catalogue #	P-356-100
Description:	Protein contains amino acids 14-681, mutations HV 69-70 del, Y144 del, N501Y, A570D, D614G, P681H.
Uniprot ID:	P0DTC2
MW:	74.92 kDa
Host:	CHO-based cell line (expressed by QMCF Technology)
Purification:	Metal-affinity chromatography followed by gel filtration. Protein is sterile-filtrated through 0.22 µm filter.
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

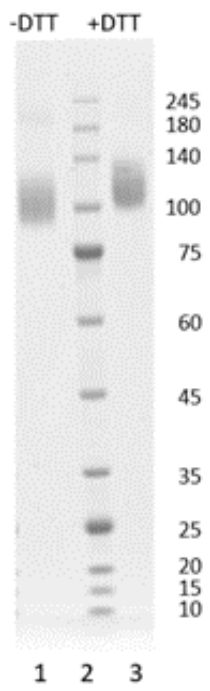


Figure 1. Coomassie-stained SDS-PAGE analysis of SARS-CoV-2 S1 UK B1.1.7 nat. 4-12% gradient gel is used for analysis. Lane 1. 0.8 μ g SARS-CoV-2 S1 UK B1.1.7 nat (-DTT). Lane 2. Protein marker (Smobio). Lane 3. 0.8 μ g SARS-CoV-2 S1 UK B1.1.7 nat (+DTT).

Peak Table

Peak #	RT (min)	Area	Area %
1	5.622	208.95	5.27
2	6.357	225.09	5.68
3	7.202	3530.02	89.05

Chromatogram

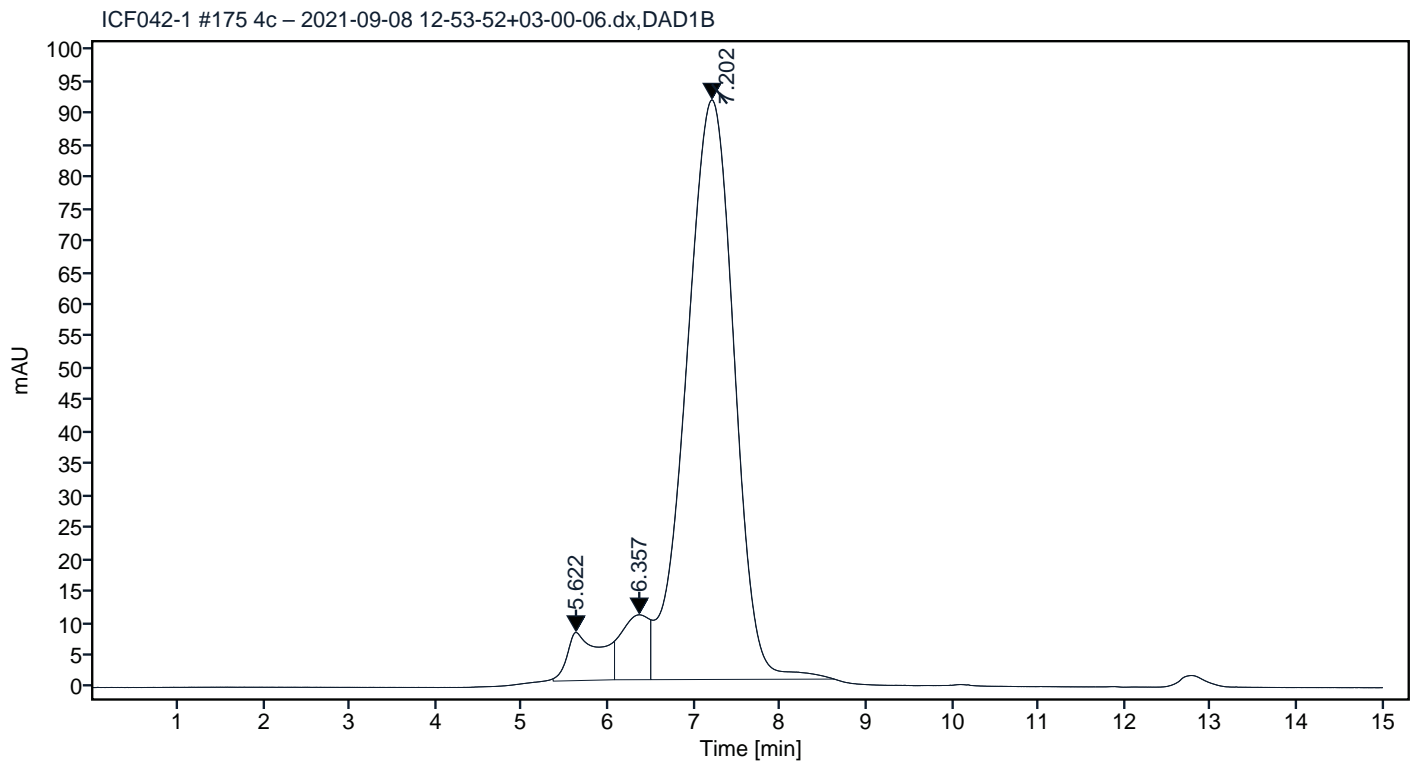


Figure 2. HPLC analytical SEC for final product.

Peak Table

Peak #	RT (min)	Area	Area %
1	5.622	244.95	5.24
2	6.356	273.32	5.85
3	7.202	4153.27	88.91

Chromatogram

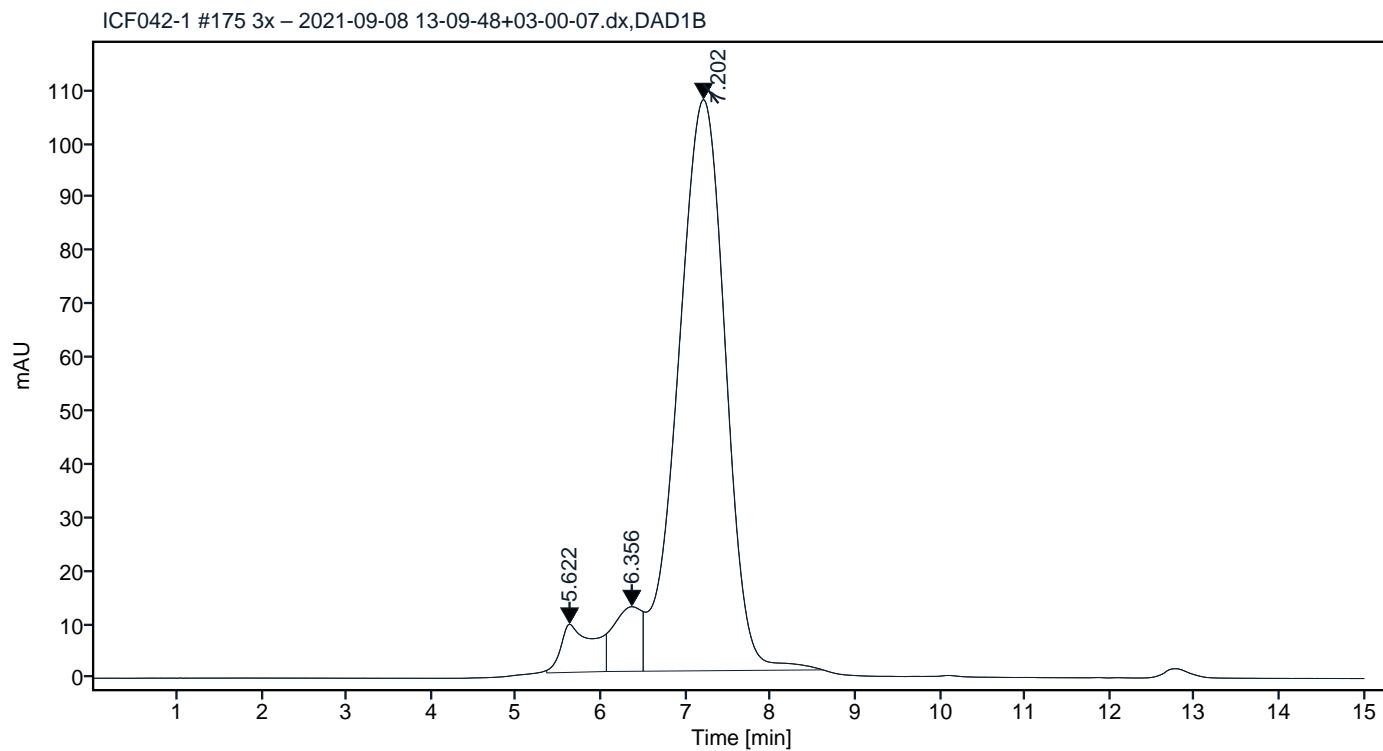


Figure 3. HPLC analytical SEC after 3 freeze-thaw cycles.

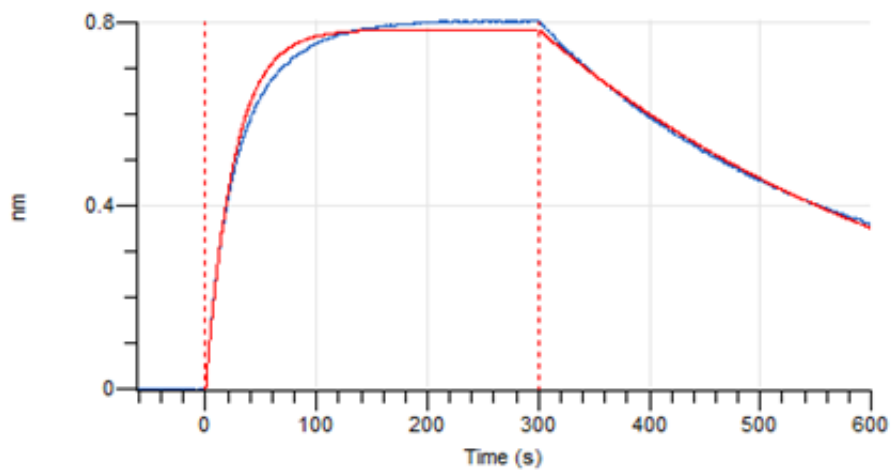


Figure 4. Octet RED96e analysis of SARS-CoV-2 S1 UK B1.1.7 nat binding to the ACE2 receptor.