



SARS-CoV-2 Spike RBD2 UK VOC 202012/01(alpha)

Catalogue #	P-311-100
Description:	Protein contains amino acids 319-541, mutation N501Y, plus two extra amino acids (YS) in N-terminus and His-6 tag at C-terminus and GSG linker between protein and tag.
MW:	26.3 kDa
Host:	CHO-based cell line (expressed by QMCF Technology)
Kd:	2.22E-09 (measured against ACE2 receptor)
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:	SDS-PAGE NanoDrop A280 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
Background:	Measured by its binding ability to ACE2 protein by OCTET RED96 system.

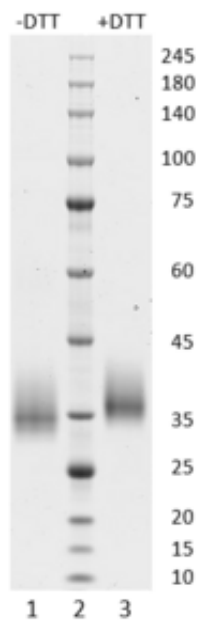


Figure 1. SDS-PAGE analysis in reduced and non-reduced conditions. 1.3 μ g of SARS-CoV-2 Spike RBD2 UK VOC 202012/01 protein were loaded per lane. Lane 1. SARS-CoV-2 Spike RBD2 UK VOC 202012/01 (reduced); Lane 2. Protein size marker (Smobio); Lane 3. SARS-CoV-2 Spike RBD2 UK VOC 202012/01 (non-reduced).

Peak Table

Peak #	RT (min)	Area	Area %
1	10.037	4392.53	100.00

Chromatogram

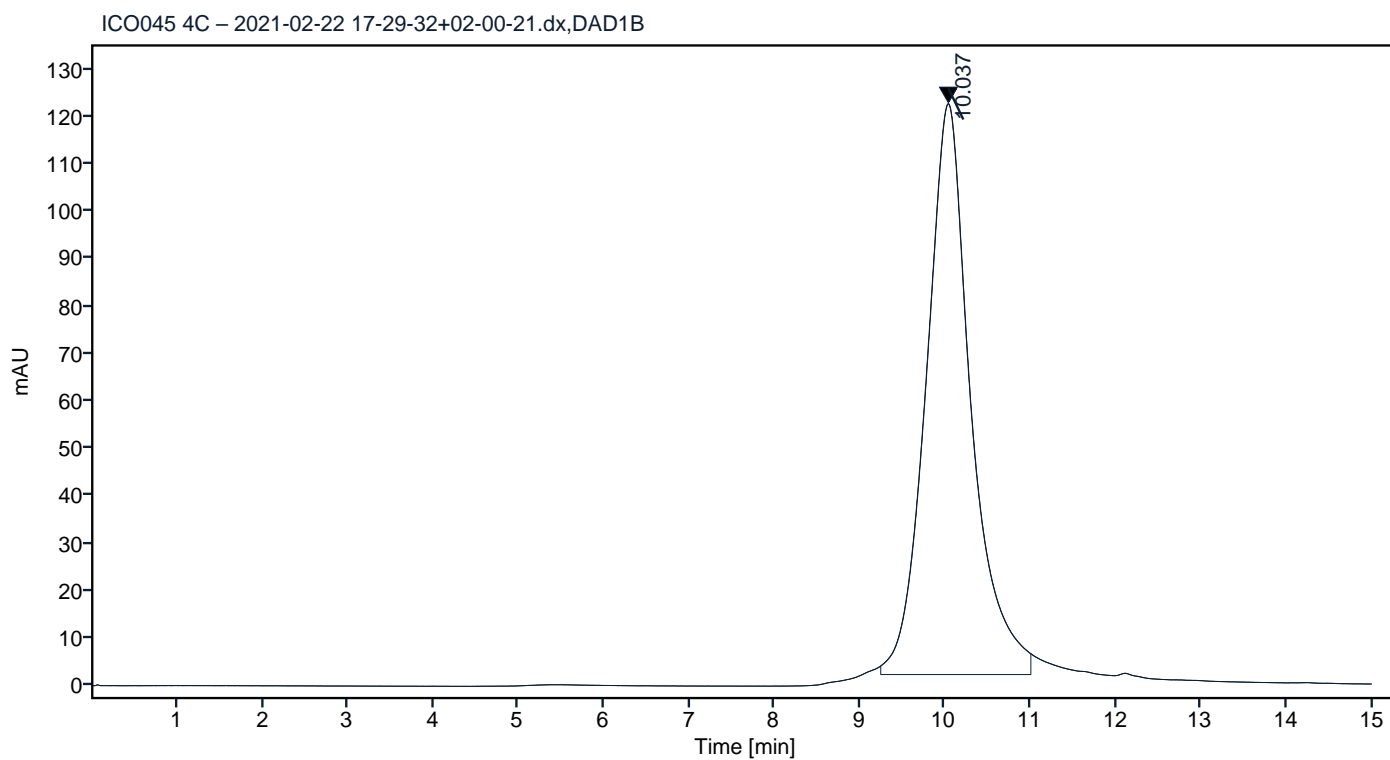


Figure 2. HPLC analytical SEC for final product.

Peak Table

Peak #	RT (min)	Area	Area %
1	10.039	4295.34	100.00

Chromatogram

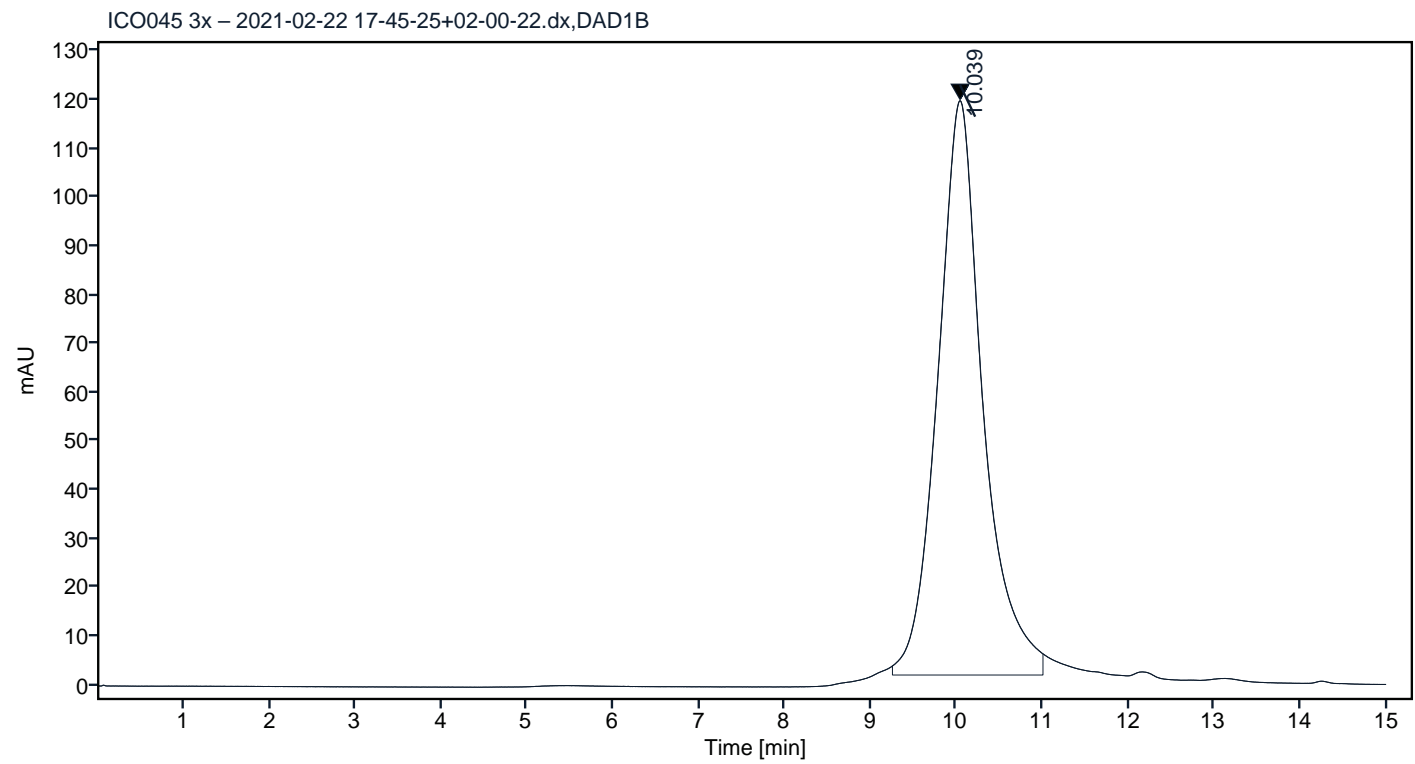


Figure 3. HPLC analytical SEC after 3 freeze-thaw cycles.

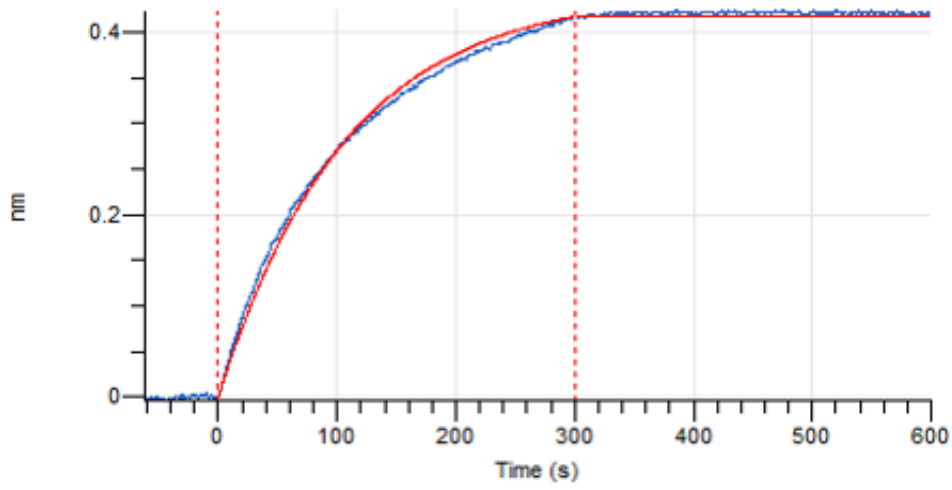


Figure 4. Octet Red96e analysis of SARS-CoV-2 Spike RBD2 UK VOC 202012/01 binding to human ACE2 receptor.