



SARS-CoV-2 Spike S1 Omicron BA.4

Catalogue #	P-379-100
Description:	Protein contains amino acids 14-681, mutations T19I, L24S, del25/27, del69-70, G142D, V213G, G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452R, S477N, T478K, E484A, F486V, Q498R, N501Y, Y505H, D614G, H655Y, N658S, N679K, P681H, two extra amino acids (AS) in N-terminus, His-6 tag at C-terminus and GSG linker between protein and tag.
MW:	75.354 kDa
Host:	CHO-based cell line (expressed by QMCF Technology)
Kd:	2.07E-08 (measured against ACE2 receptor)
Purification:	Purified by Ni-affinity chromatography and gel-filtration from serum-free CHO growth media, sterile filtrated
Purity:	>95%
Concentration:	1 mg/ml
Buffer:	PBS pH 7.4
Endotoxine:	NA
QC:	Simply Blue Safe 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

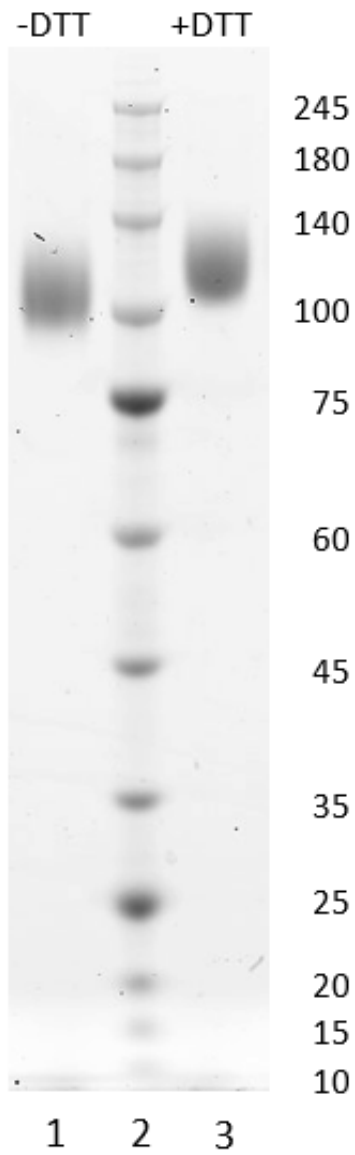


Figure 1. Simply Blue Safe stained SDS-PAGE analysis of SARS-CoV-2 Spike S1 Omicron BA.4. 4-12% gradient gel is used for analysis. Lane 1. 0.8 μ g SARS-CoV-2 Spike S1 Omicron BA.4 (-DTT) Lane 2. Protein marker (Smobio) Lane 3. 0.8 μ g SARS-CoV-2 Spike S1 Omicron BA.4 (+DTT)

Peak Table

Peak #	RT (min)	Area	Area %
1	8.368	2601.42	100.00

Chromatogram

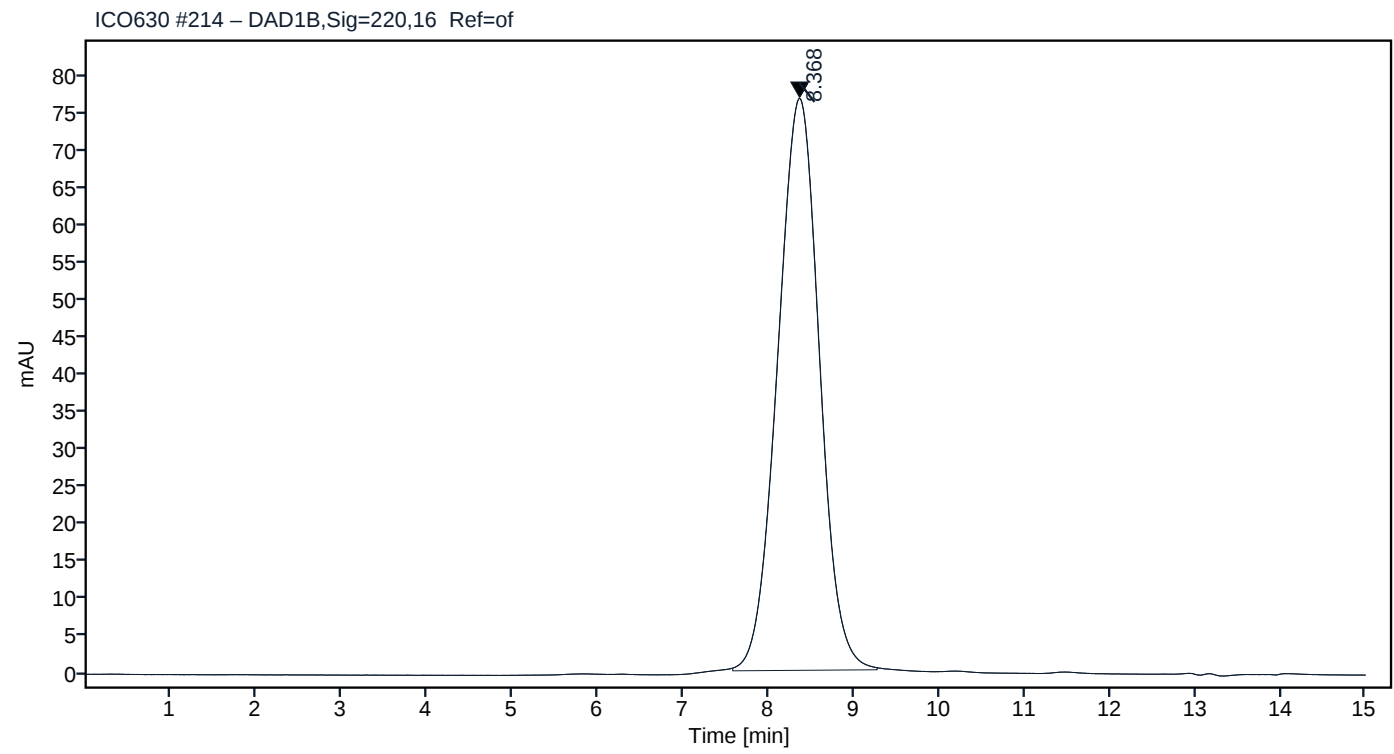


Figure 2. HPLC analytical SEC for final product.

Peak Table

Peak #	RT (min)	Area	Area %
1	8.369	2622.87	100.00

Chromatogram

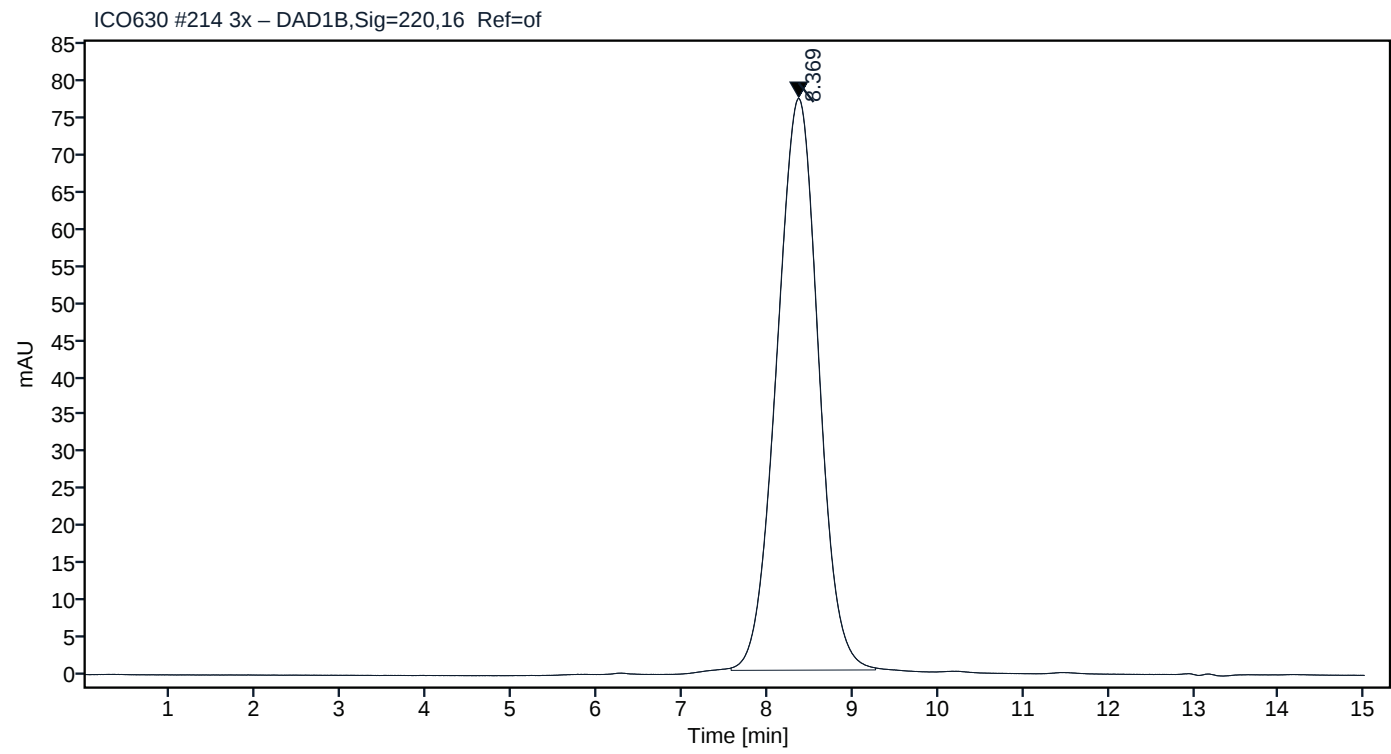


Figure 3. HPLC analytical SEC after 3 freeze-thaw cycles.

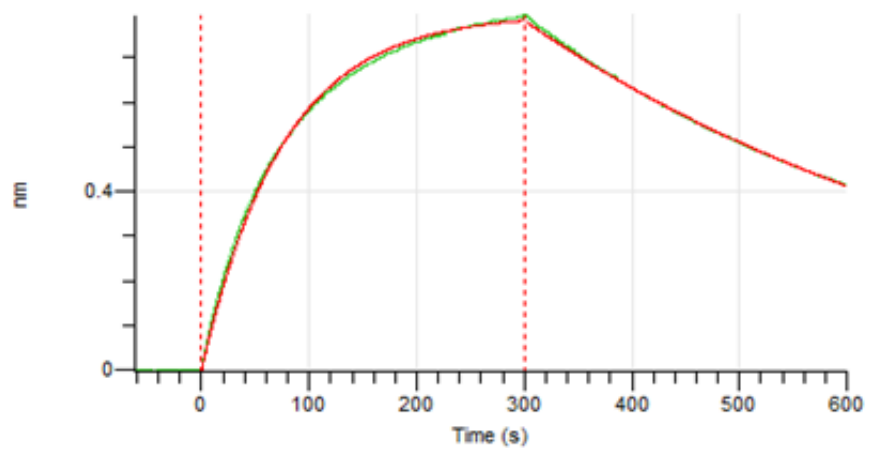


Figure 4. Octet RED96e analysis of SARS-CoV-2 S1 Omicron protein binding to the ACE2 receptor.