SARS-CoV-2 Spike RBD3 Omicron BA.4 & BA.5

Catalogue #	P-381-100
Description:	Protein contains amino acids 319-537, mutations G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452R, S477N, T478K, E484A, F486V, Q498R, N501Y, Y505H plus two extra amino acids (AS) in N-terminus and His-6 tag at C-terminus and GSG linker between protein and tag.
MW:	25.789 kDa
Host:	CHO-based cell line (expressed by QMCF Technology)
Kd:	5.85E-09 (measured against ACE2 receptor)
Purification:	Metal-affinity chromatography following gel filtration. Protein is sterile-filtrated through 0.22 µm filter.
Purity:	>90%
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

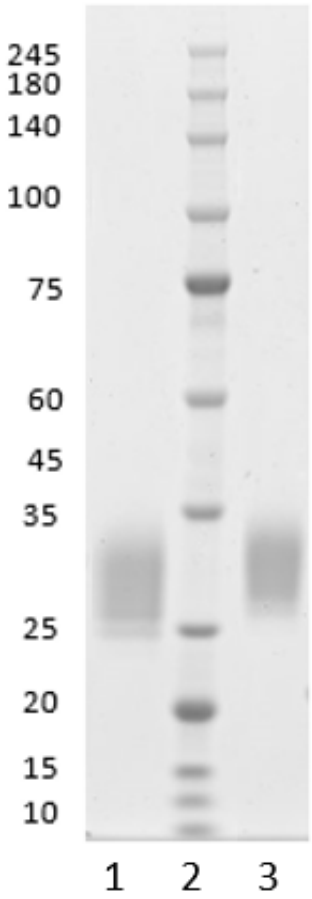

Figure 1. Simply Blue Safe stained SDS-PAGE analysis of SARS-CoV-2 Spike RBD3 Omicron BA.4 & BA.5. 4-12% gradient gel is used for analysis. Lane 1. 0.8 µg SARS-CoV-2 Spike RBD3 Omicron BA.4 & BA.5 (-DTT) Lane 2. Protein marker (Smobio) Lane 3. 0.8 µg SARS-CoV-2 Spike RBD3 Omicron BA.4 & BA.5 (+DTT)

Peak Table

Peak #	RT (min)	Area	Area %
1	10.179	2493.13	100.00

Chromatogram

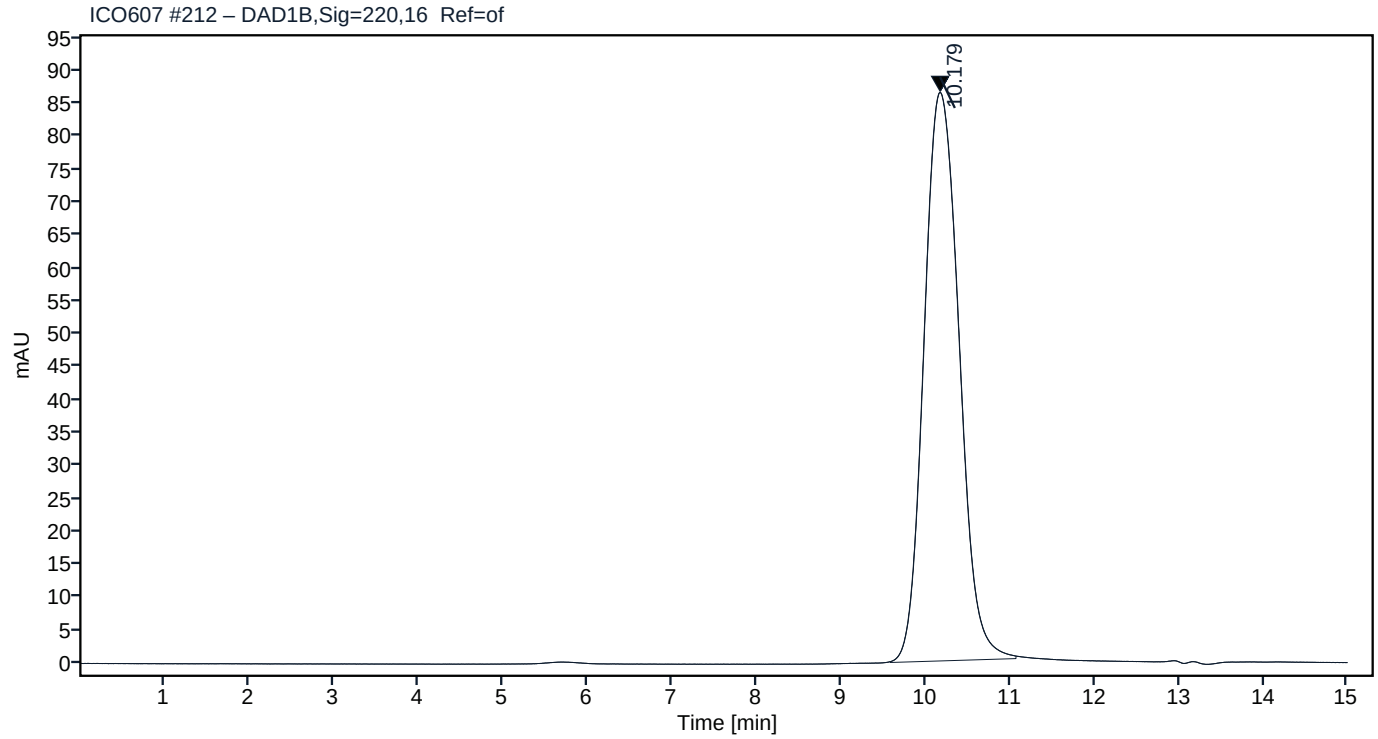

Figure 2. HPLC analytical SEC for final product.

Peak Table

Peak #	RT (min)	Area	Area %
1	10.178	2499.15	100.00

Chromatogram

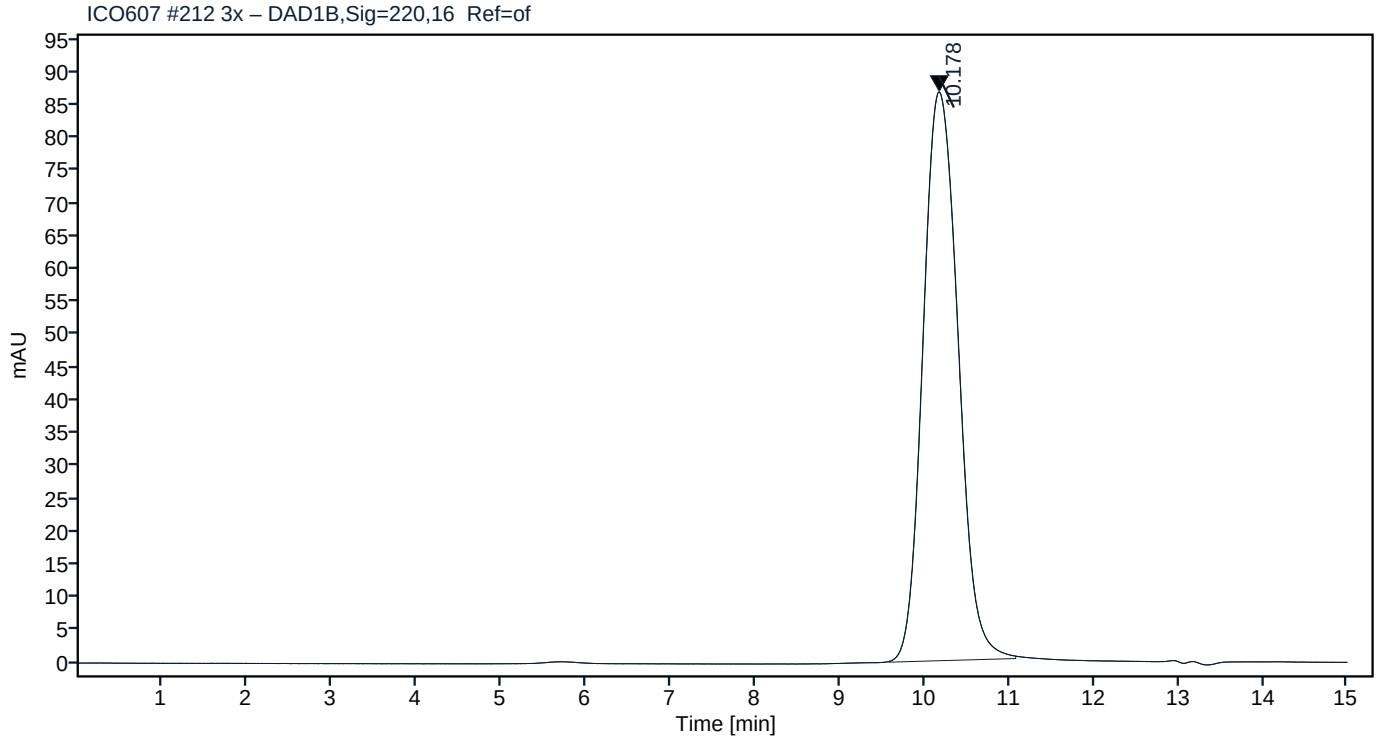

Figure 3. HPLC analytical SEC after 3 freeze-thaw cycles.

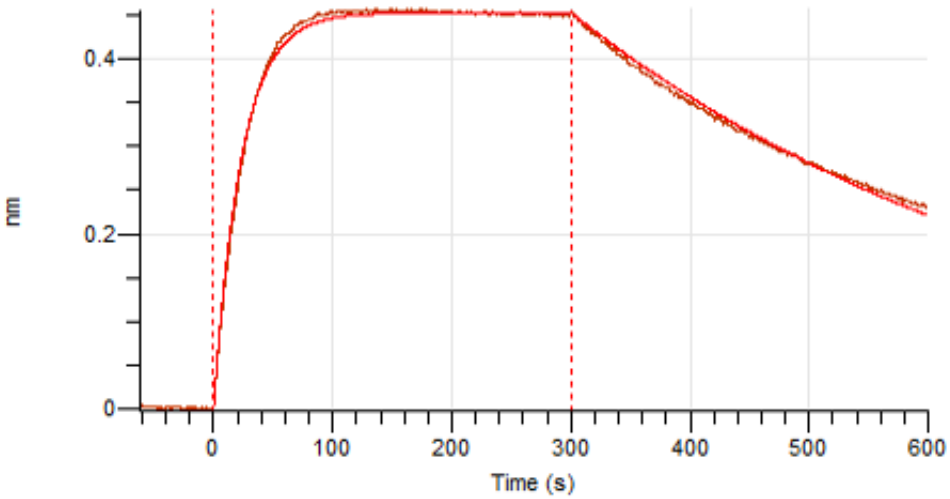

Figure 4. Octet Red96e analysis of SARS-CoV-2 Spike RBD3 Omicron binding to human ACE2 receptor.