

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

Catalogue # P-317-100

Description: Protein contains amino acids 14-1211 and

following mutations: HV 69-70 del, Y144 del, N501Y, A570D, D614G, P681H, T716I, S982A, D1118H. Plus two extra amino acids (AS) in N-terminus, trimerization domain and His-6 tag at C-

terminus, GS linker between protein and trimerization domain and GSG linker between trimerization domain and His-tag. Furin cleavage

(RRAR) site between Spike S1 and S2 is mutated (GSAS). Also, two stabilizing prolines (PP) have been added to the S2 domain.

Uniprot ID: P0DTC2

MW: 410 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

Purity: >95%

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 ,analytical SEC, Octet binding

Shipping: Shipped on dry ice

Storage: Store at -70°C upon receipt. Recommended to

aliquot into smaller quantities. Avoid repeated

freeze-thaw cycles

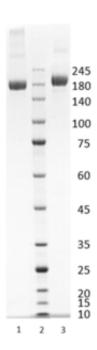


Figure 1. Simply Blue stained SDS-PAGE analysis of SARS-CoV-2 Trimeric Spike UK VOC 202012/01 . 4-12% gradient gel is used for analysis. Lane 1. 1.3 μ g SARS-CoV-2 Trimeric Spike UK VOC 202012/01 (-DTT) Lane 2. Protein marker (Smobio) Lane 3. 1.3 μ g SARS-CoV-2 Trimeric Spike UK VOC 202012/01 (+DTT)

Peak Table

Peak #	RT (min)	Area	Area %
1	6.543	4063.29	95.12
2	8.110	208.62	4.88

Chromatogram

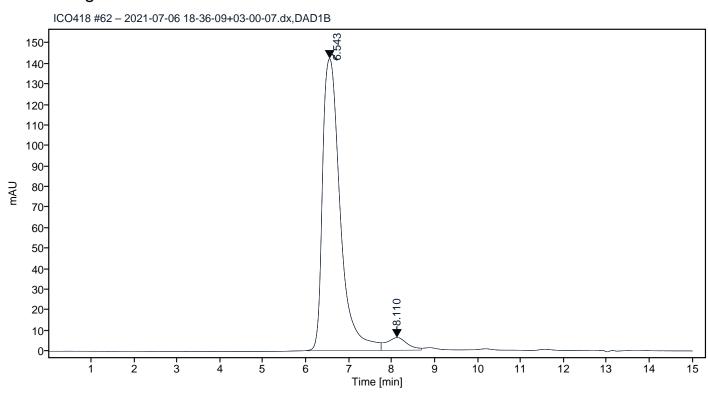


Figure 2. HPLC analytical SEC for final product.

Peak Table

Peak #	RT (min)	Area	Area %
1	6.513	3253.03	96.21
2	8.125	128.10	3.79

Chromatogram

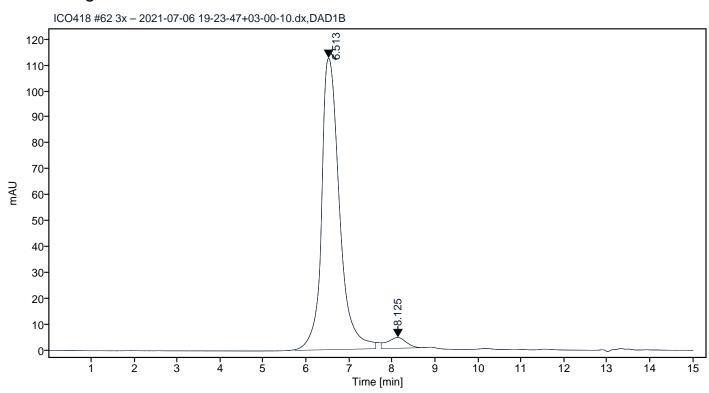


Figure 3. HPLC analytical SEC after 3 freeze-thaw cycles.

