

SARS-CoV-2 Trimeric Spike Californian B.1.427

Catalogue #	P-354-100
Description:	Protein contains amino acids 14-1211 and following mutations: W152C, L452R, D614G. 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).
Uniprot ID:	P0DTC2
Source:	Human
MW:	410.645 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
QC:	SDS-PAGE, analytical SEC, Octet binding to ACE2 receptor
Shipping:	Shipped on dry ice.
Storage:	Store at -20 °C to -70 °C long term. Avoid multiple freeze-thaw cycles.

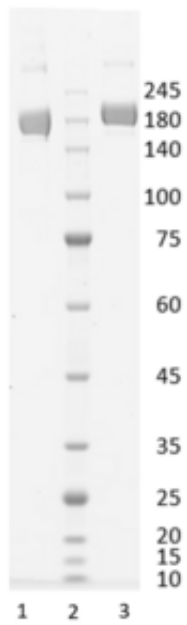


Figure 1. Simply Blue stained SDS-PAGE analysis of SARS-CoV-2 Trimeric Spike Californian B.1.427. 4-12% gradient gel is used for analysis. Lane 1. 0.8 μ g SARS-CoV-2 Trimeric Spike Californian B.1.427 (-DTT) Lane 2. Protein marker (Smobio) Lane 3. 0.8 μ g SARS-CoV-2 Trimeric Spike Californian B.1.427 (+DTT).

Peak Table

Peak #	RT (min)	Area	Area %
1	6.641	3379.69	97.59
2	8.149	83.51	2.41

Chromatogram

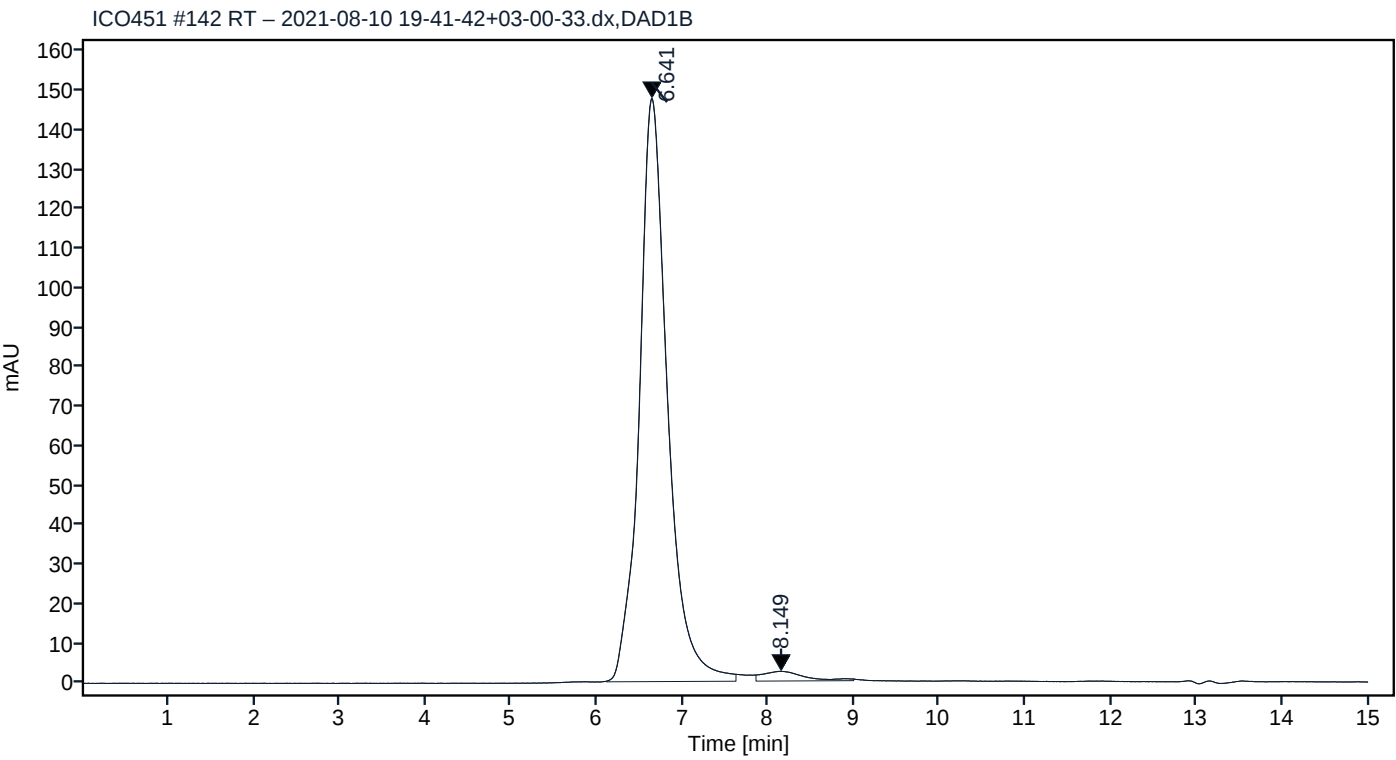


Figure 2. HPLC analytical SEC for final product.

Peak Table

Peak #	RT (min)	Area	Area %
1	6.643	3682.45	97.76
2	8.160	84.51	2.24

Chromatogram

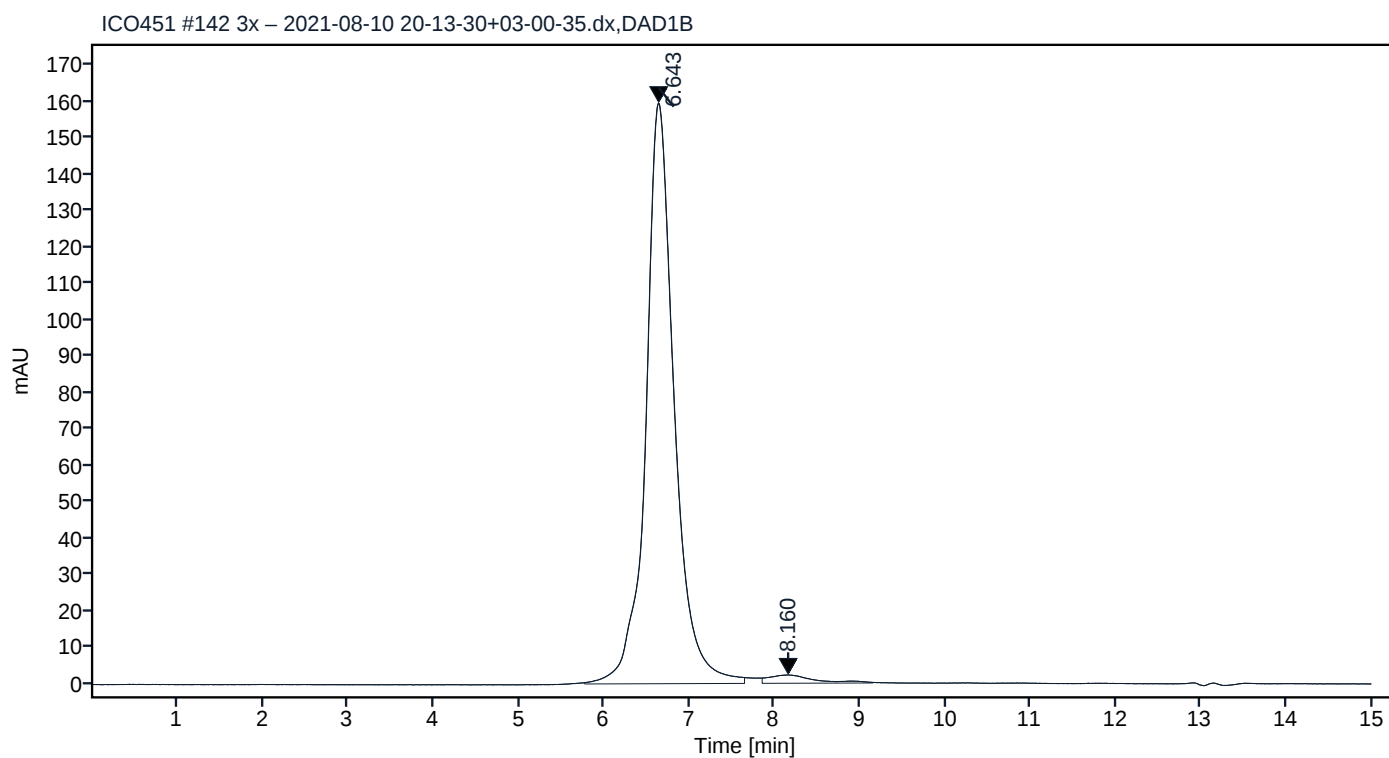


Figure 3. HPLC analytical SEC after 3 freeze-thaw cycles.

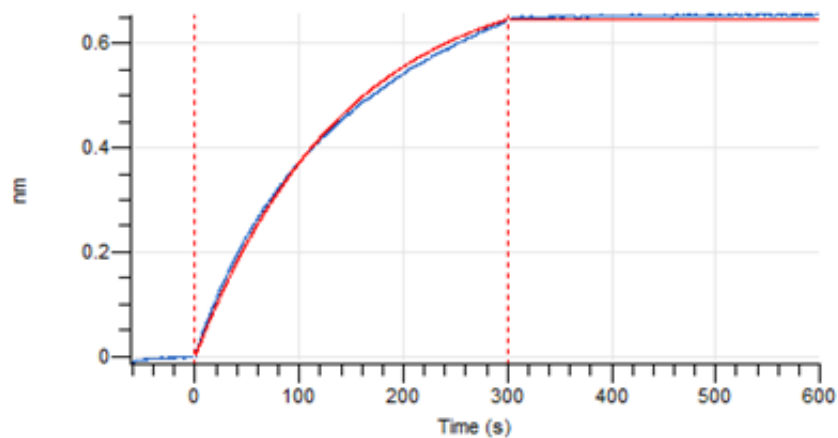


Figure 4. Octet Red96e analysis of SARS-CoV-2 Trimeric Spike Californian B.1.427 binding to human ACE2 receptor.