

## SARS-CoV-2 Spike S1 Indian B.1.617.1 (kappa)

Catalogue # P-348-100

Description: Protein contains amino acids 14-681, mutations

G142D, E154K, L452R, E484Q, D614G, P681R, two extra amino acids (AS) in N-terminus and His-6 tag at C-terminus and GSG linker between

protein and tag.

MW: 75.99 kDa

Host: CHO-based cell line (expressed by QMCF

Technology)

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

Bioproperties: Measured by its binding ability to ACE2 protein

by OCTET RED96 system.

QC: SDS-PAGE

NanoDrop A280, analytical SEC, Octet binding to

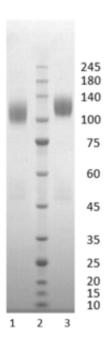
ACE2 receptor

Shipping: Shipped on dry ice

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

aliquot into smaller quantities. Avoid repeated

freeze-thaw cycles



**Figure 1.** Coomassie-stained SDS-PAGE analysis of SARS-CoV-2 Spike S1 Indian B.1.617.1. 4-12% gradient gel is used for analysis. Lane 1. 0.8 μg SARS-CoV-2 Spike S1 Indian B.1.617.1 (-DTT) Lane 2. Protein marker (Smobio) Lane 3. 0.8 μg SARS-CoV-2 Spike S1 Indian B.1.617.1 (+DTT).

## Peak Table

Peak #	RT (min)	Area	Area %
1	7.653	5258.48	99.29
2	8.836	37.57	0.71

# Chromatogram

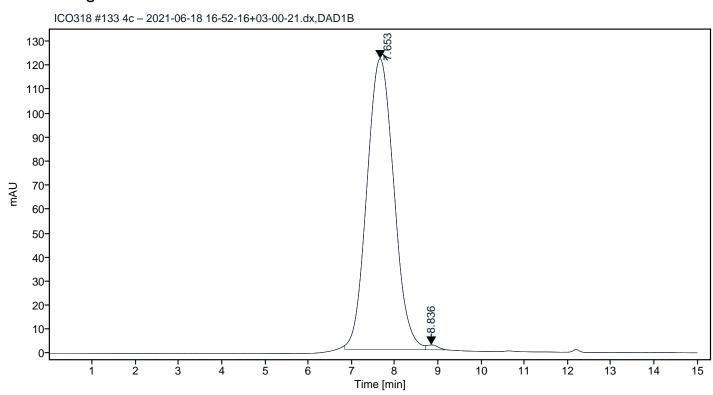


Figure 2. HPLC analytical SEC for final product.

#### Peak Table

Peak #	RT (min)	Area	Area %
1	7.653	5180.30	99.30
2	8.846	36.41	0.70

## Chromatogram

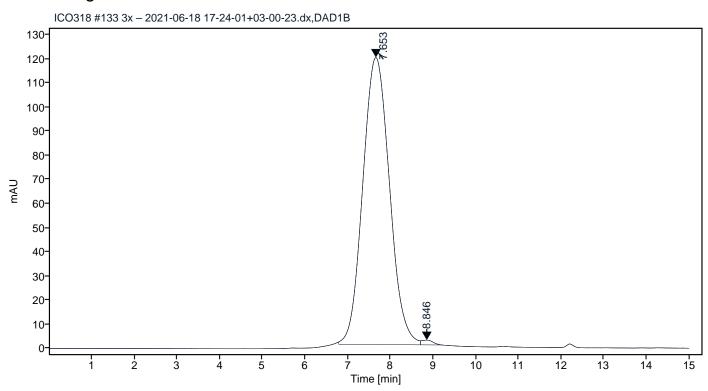
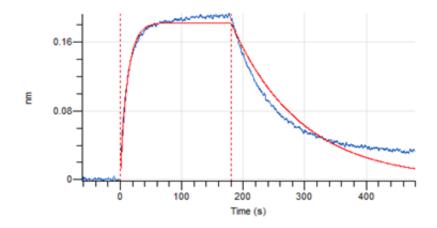


Figure 3. HPLC analytical SEC after 3 freeze-thaw cycles.



**Figure 4.** Binding analysis of the SARS-CoV-2 Spike S1 Indian B.1.617.1 protein to hACE2 receptor. hACE2 -Fc protein was bound to Protein G sensor. 200 nanomols of SARS-CoV-2 Spike S1 protein was bound to the ACE2 receptor.