

Stabilized trimeric D614G SARS-CoV-2 Spike **Protein**

This product is for research use only.

PRODUCT INFORMATION

Product Overview Trimeric SARS-CoV-2 D614G spike protein in prefusion conformation.

Modifications C-terminal Transmembrane region replaced with a trimerization domain and a polyhistidine

tag. Two stabilizing proline mutations. Scrambled S1/S2 furin cleavage site. D614G amino

acid change.

SARS-CoV-2 Betacoronavirus **Strain**

Isolate (Seq ID) Wuhan-Hu-1 (GenBank: MN908947) with D614G mutation.

CHOExpress[™] cells **Expression System**

Purity > 95 % as determined by SDS-PAGE.

Molecular Weight The recombinant SARS-CoV-2 trimeric spike protein consists of 3576 amino acids and

predicts a molecular mass of ~400 kDa.

Endotoxin <1.0 EU per µg protein as determined by the LAL method.

Format Liquid

Reference Wrapp D. et al. Cryo-EM structure of the 2019-nCoV spike in the prefusion conformation.

Science 367, 1260-1263 (2020)



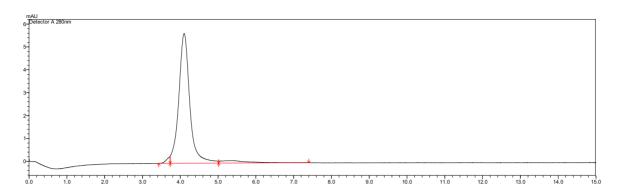
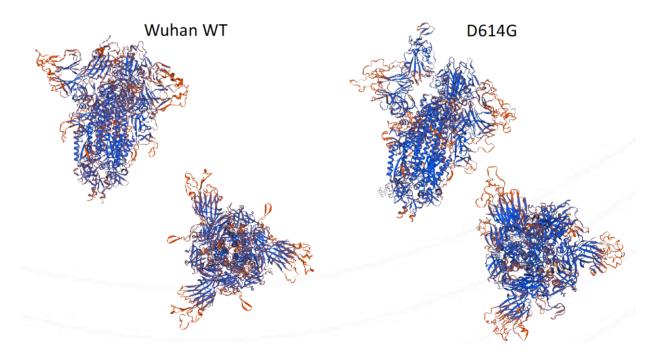


Figure 1. Verification of purity and size of the recombinant trimeric SARS-CoV-2 D614G Spike Protein under non-denaturing conditions. Size-exclusion chromatography (SEC) plot with peak at 4.0 minutes, corresponding to a size of \sim 400kD.

Figure 2. 3-D model of the recombinant trimeric SARS-CoV-2 spike protein and D614G mutant using Swiss-Model - University of Basel online tools (https://swissmodel.expasy.org/)





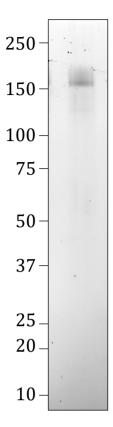


Figure 3. Verification of size and purity and size of trimeric SARS-CoV-2 D614G spike protein under denaturing conditions. 7.5% SDS-PAGE gel with a band corresponding to the size of the spike monomer; ~ 150 kD.