# Recombinant trimeric SARS-CoV-2 Spike Protein (D614G variant)
# LU2011-50UG

## PRODUCT INFORMATION

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| **Product Name** | Trimeric SARS-CoV-2 spike protein in prefusion conformation, D614G variant |
| **Product Code** | LU2011-50UG |
| **Size** | 50 ug (1 mg/ml) |
| **Modifications** | C-terminal transmembrane region replaced with a trimerization domain and a polyhistidine tag. Two stabilizing proline mutations and scrambled S1/S2 furin cleavage site *(see reference).* D614G mutation. |
| **Strain** | SARS-CoV-2 Betacoronavirus |
| **Isolate (Seq ID)** | Wuhan-Hu-1 (GenBank: MN908947), D614G mutation |
| **Expression System** | CHOExpress™ cells |
| **Purity** | > 90 % as determined by SDS-PAGE. |
| **Conjugate** | His |
| **N-terminus** | VNLT |
| **Molecular Weight** | The recombinant SARS-CoV-2 trimeric spike protein consists of 3576 amino acids with a predicted molecular mass of ~400 kDa. |
| **Endotoxin** | <1.0 EU per µg protein as determined by the LAL method. |
| **Format** | Liquid |
| **Buffer** | 0.01M PBS, pH 7.4 |
| **Preservative** | None |
| **Storage** | Store at -20°C to -80°C. Avoid repeated freeze-thaw cycles. |
| **Ship** | Shipped on dry ice |
| **Reference** | Wrapp D. et al. Cryo-EM structure of the 2019-nCoV spike in the prefusion conformation. Science 367, 1260–1263 (2020) |



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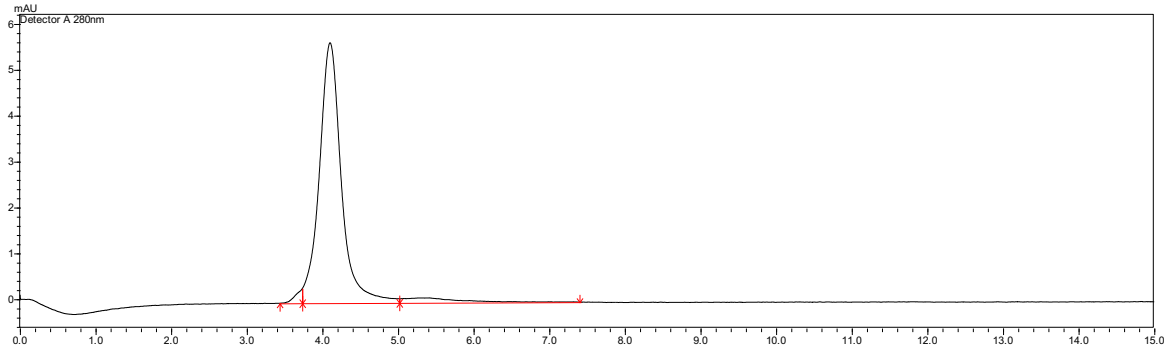


**Figure 1.** Verification of purity and size of the recombinant trimeric SARS-CoV-2 Spike Protein (D614G) under non-denaturing conditions. Size-exclusion chromatography (SEC) plot with peak at 4.0 minutes, corresponding to a size of ~460kD.

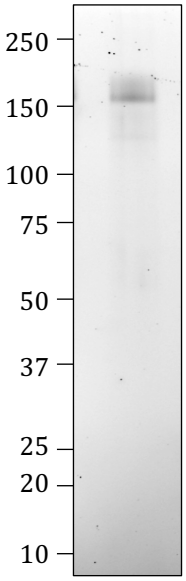


**Figure 2.** Verification of size and purity of the trimeric SARS-CoV-2 spike protein (D614G) under denaturing conditions. SDS-PAGE gel showing a band corresponding to the size of the spike monomer; ~ 150 kD.

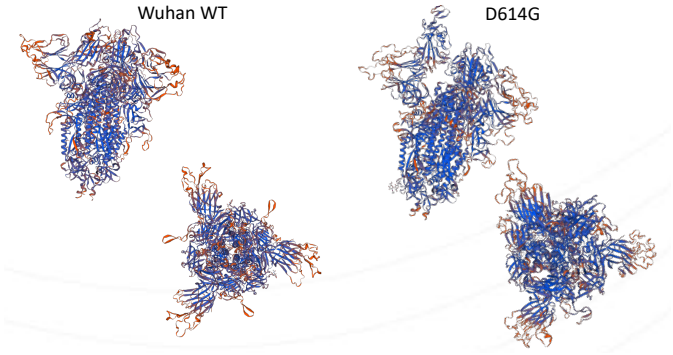


**Figure 3.** A 3-D model of the recombinant trimeric SARS-CoV-2 spike protein using Swiss-Model – University of Basel online tools (https://swissmodel.expasy.org/)

This product is for research use only and is not intended for diagnostic use.



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