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Lieferung & Zahlungsart

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Zuschläge

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

PRODUCT INFORMATION

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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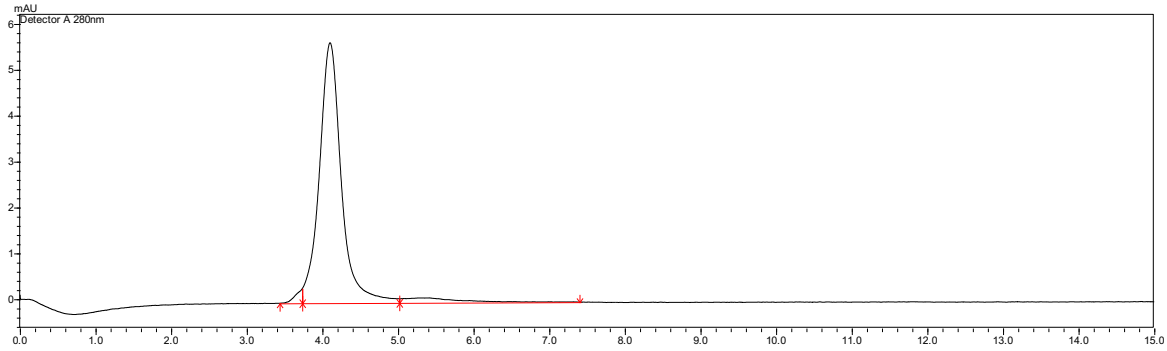

Figure 1. Verification of purity and size of the recombinant trimeric SARS-CoV-2 Spike Protein (D614G) under non-denaturing conditions. Size-exclusion chromatography (SEC) plot with peak at 4.0 minutes, corresponding to a size of ~460kD.

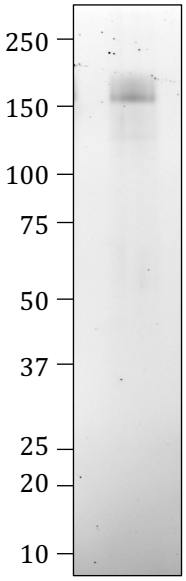

Figure 2. Verification of size and purity of the trimeric SARS-CoV-2 spike protein (D614G) under denaturing conditions. SDS-PAGE gel showing a band corresponding to the size of the spike monomer; ~ 150 kD.

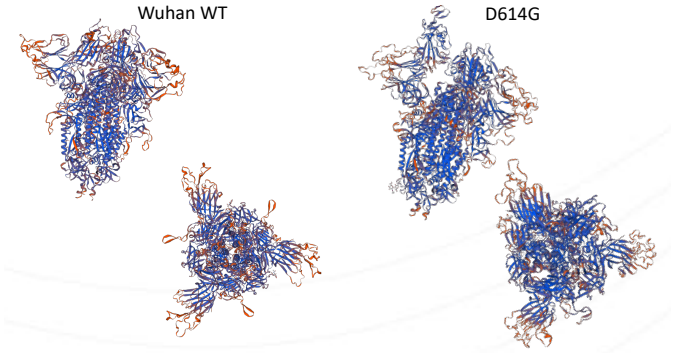

Figure 3. A 3-D model of the recombinant trimeric SARS-CoV-2 spike protein using Swiss-Model – University of Basel online tools (https://swissmodel.expasy.org/)

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

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