

SARS-COV-2 Spike S Trimer (D614G) Protein



Cat. No. COV-VM4LG

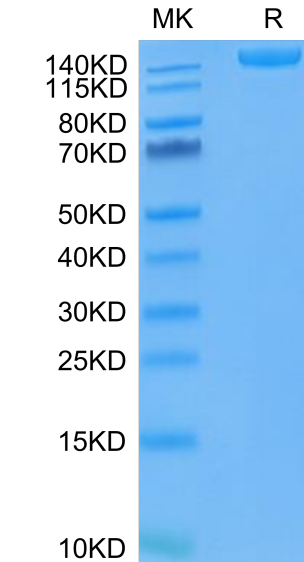
Description	
Source	Recombinant SARS-COV-2 Spike S Trimer(D614G) Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Val16-Glu1188 (D614G) trimer design.
Accession	QHD43416.1
Molecular Weight	The protein has a predicted MW of 136.7 kDa. Due to glycosylation, the protein migrates to 175-230 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background	
The SARS-CoV-2 spike (S) protein variant D614G supplanted the ancestral virus worldwide, reaching near fixation in a matter of months. Recently, that D614G was been found more infectious than the ancestral form on human lung cells, colon cells, and on cells rendered permissive by ectopic expression of human ACE2 or of ACE2 orthologs from various mammals, including Chinese rufous horseshoe bat and Malayan pangolin.	

Assay Data

Bis-Tris PAGE



SARS-COV-2 Spike S Trimer (D614G) on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

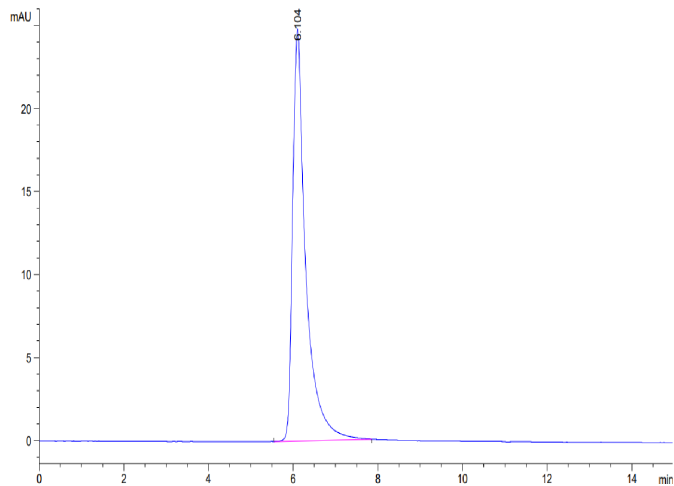
SEC-HPLC

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Assay Data

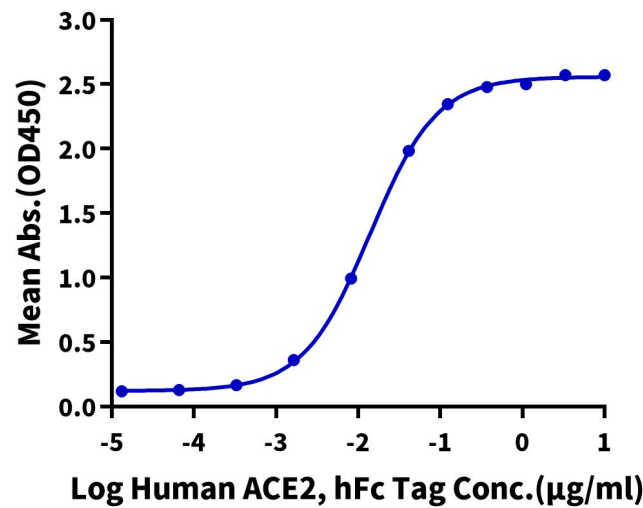


The purity of SARS-COV-2 Spike S Trimer (D614G) is greater than 95% as determined by SEC-HPLC.

ELISA Data

SARS-COV-2 Spike S (D614G), His Tag ELISA

0.1µg SARS-COV-2 Spike S (D614G), His Tag Per Well



Immobilized SARS-COV-2 Spike S Trimer (D614G), His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC50 of 14.0ng/ml determined by ELISA.