

SARS-COV-2 Spike S1 (B.1.640.2/IHU) Protein

Cat. No. IHU-VM1S1

Description	
Source	Recombinant SARS-COV-2 Spike S1(B.1.640.2/IHU) Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Gln14-Arg683(E96Q, CNDPFLGV136-144del, R190S, D215H, R346S, N394S, Y449N, E484K, F490S, N501Y, D614G).
Accession	QHD43416.1
Molecular Weight	The protein has a predicted MW of 74.88 kDa. Due to glycosylation, the protein migrates to 110-120 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

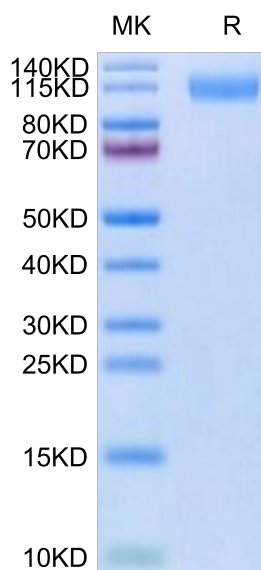
Formulation and Storage	
Formulation	Supplied as 0.22µm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

The spike protein (S) of coronavirus (CoV) attaches the virus to its cellular receptor, angiotensin-converting enzyme 2 (ACE2). A defined receptor-binding domain (RBD) on S mediates this interaction. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity.

Assay Data

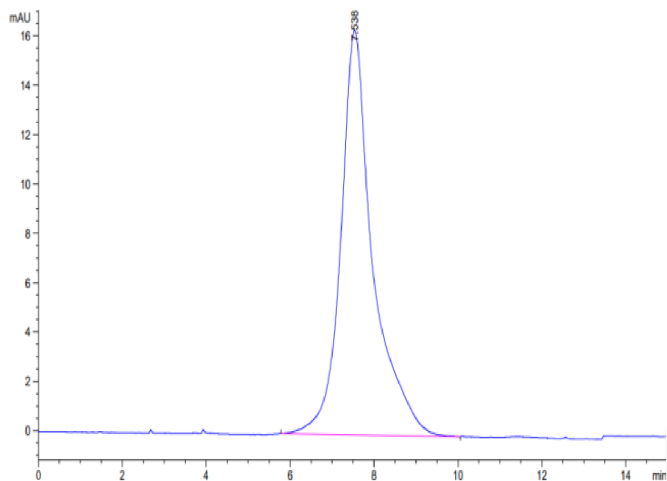
Bis-Tris PAGE



SARS-COV-2 Spike S1 (B.1.640.2/IHU) on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Assay Data

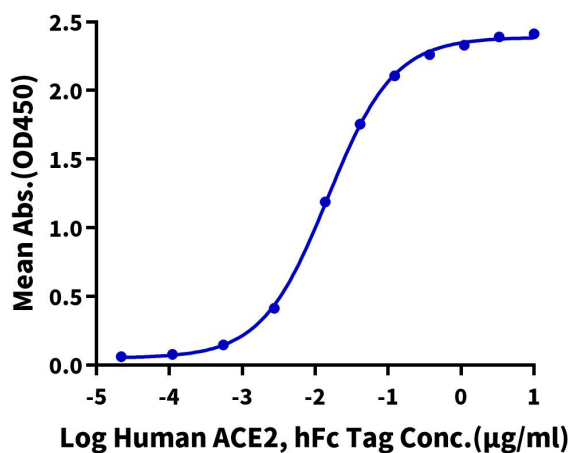


The purity of SARS-COV-2 Spike S1 (B.1.640.2/IHU) is greater than 95% as determined by SEC-HPLC.

ELISA Data

SARS-COV-2 Spike S1 (B.1.640.2/IHU), His Tag ELISA

0.2µg SARS-COV-2 Spike S1 (B.1.640.2/IHU), His Tag Per Well



Immobilized SARS-COV-2 Spike S1 (B.1.640.2/IHU), His Tag at 2µg/ml (100µl/Well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC50 of 14.9ng/ml determined by ELISA.