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 1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

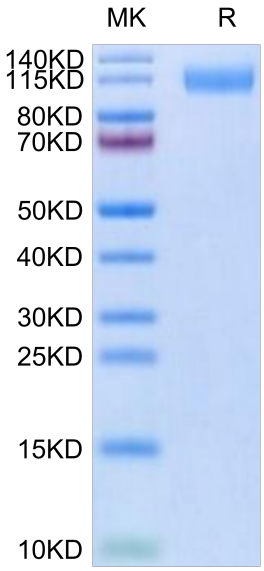
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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 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

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

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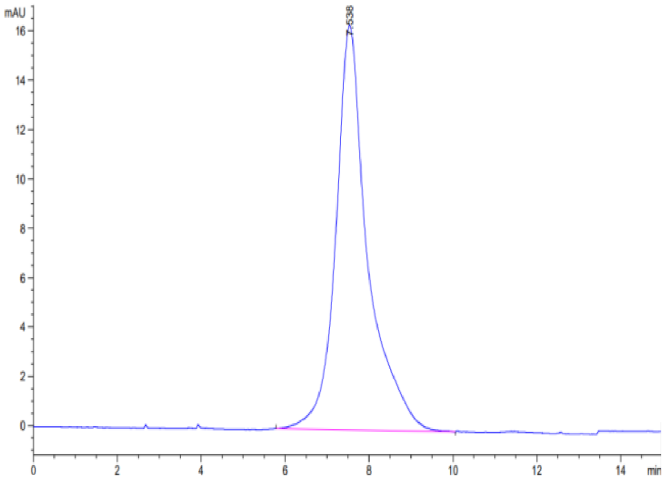
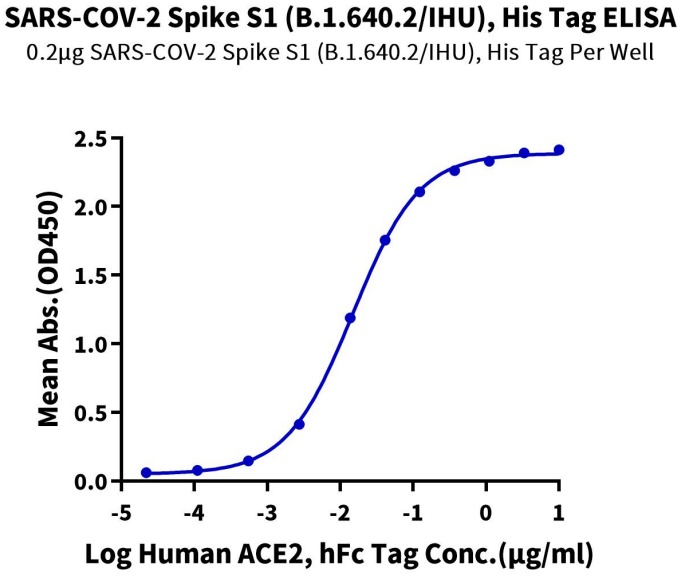
Assay Data



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

ELISA Data



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.