

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



Cat. No. IHU-VM1ST

Description

	Recombinant SARS-COV-2 Spike S (B.1.640.2/IHU) Trimer Protein is expressed from HEK293 with His tag at the C-Terminus.
Source	It contains Val16-Pro1213(E96Q, CNDPFLGV136-144del, R190S, D215H, R346S, N394S, Y449N, E484K, F490S, N501Y, D614G, P681H, T859N, D1139H) trimer design. Proline substitutions (F817P, A892P, A899P, A942P, K986P, V987P) and alanine substitutions (R683A and R685A) are introduced to stabilize the trimeric prefusion state of SARS-CoV-2 S protein and abolish the furin cleavage site, respectively.
Accession	QHD43416.1
Molecular Weight	The protein has a predicted MW of 133.60 kDa. Due to glycosylation, the protein migrates to 140-160 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

Formulation and Storage

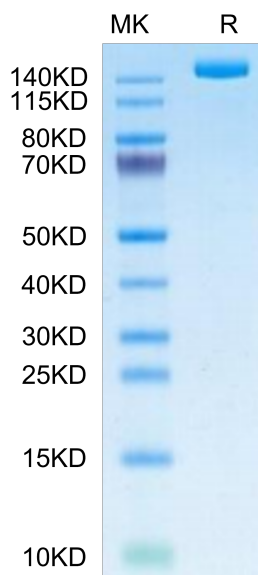
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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 S (B.1.640.2/IHU) Trimer on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

ELISA Data

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

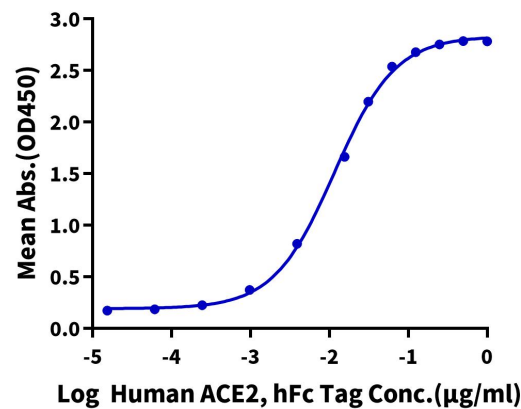
Cat. No. IHU-VM1ST



Assay Data

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

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



Immobilized SARS-COV-2 Spike S (B.1.640.2/IHU) Trimer, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC50 of 11.6ng/ml determined by ELISA (QC Test).