SARS-COV-2 Spike S1 Protein

Cat. No. COV-VM2S1



Description	
Source	Recombinant SARS-COV-2 Spike S1 Protein is expressed from HEK293 with hFc tag at the C-Terminus.
	It contains Val16-Arg685.
Accession	QHO60594.1
Molecular Weight	The protein has a predicted MW of 101.6 kDa. Due to glycosylation, the protein migrates to 115-130 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
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

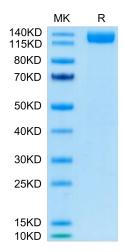
quantities for optimal storage. Please minimize freeze-thaw cycles.

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

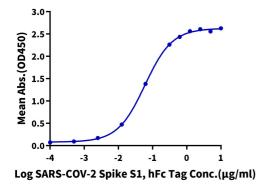


SARS-COV-2 Spike S1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

ELISA Data

SARS-COV-2 Spike S1, hFc Tag ELISA

0.5μg Human ACE2, His Tag Per Well



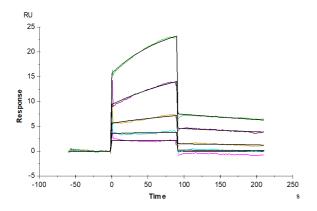
Immobilized Human ACE2, His Tag at $5\mu g/ml$ (100 μ l/well) on the plate. Dose response curve for SARS-COV-2 Spike S1, hFc Tag with the EC50 of 59.7ng/ml determined by ELISA (QC Test).

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Assay Data

SPR Data



Biotinylated Human ASGR1, His Tag captured on CM5 Chip via Anti-his antibody can bind SARS-COV-2 Spike S1, hFc Tag with an affinity constant of 0.132 μ M as determined in SPR assay (Biacore T200).