

# SARS-CoV-2 Spike S1 (Omicron BA.4/BA.5/BA.5.2) Protein

Cat. No. BAS-VM145

Description	
Source	Recombinant SARS-CoV-2 Spike S1 (Omicron BA.4/BA.5/BA.5.2) Protein is expressed from HEK293 with His tag at the C-Terminus.
Accession	QHD43416.1
Molecular Weight	The protein has a predicted MW of 75.76 kDa. Due to glycosylation, the protein migrates to 100-120 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per $\mu\text{g}$ by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

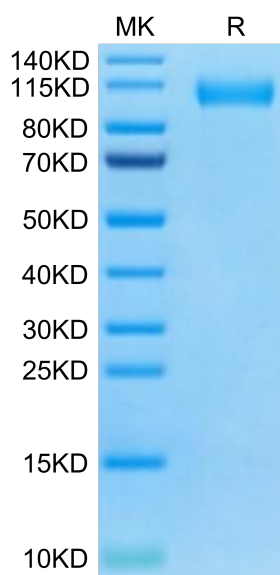
Formulation and Storage	
Formulation	Supplied as 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

**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



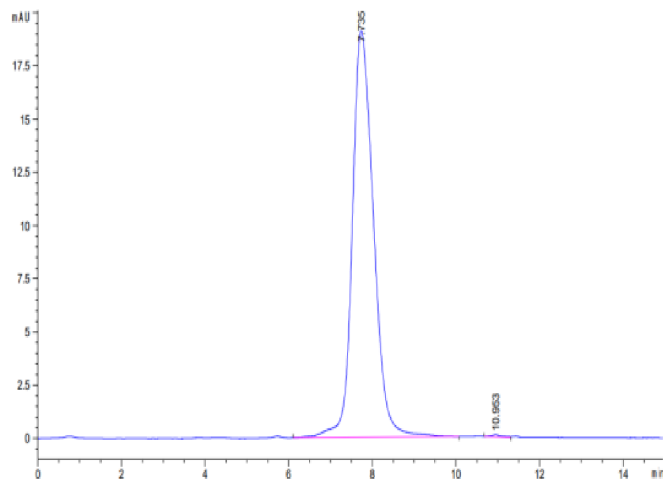
SARS-CoV-2 Spike S1 (Omicron BA.4/BA.5/BA.5.2) on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

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## Assay Data

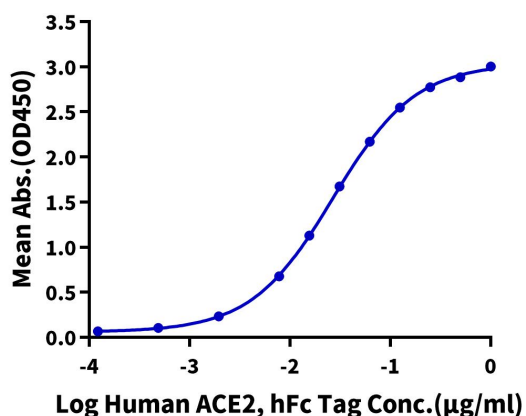


The purity of SARS-CoV-2 Spike S1 (Omicron BA.4/BA.5/BA.5.2) is greater than 95% as determined by SEC-HPLC.

## ELISA Data

### SARS-CoV-2 Spike S1 (Omicron BA.4/BA.5), His Tag ELISA

0.5µg SARS-CoV-2 Spike S1 (Omicron BA.4/BA.5), His Tag Per Well



Immobilized SARS-CoV-2 Spike S1 (Omicron BA.4/BA.5/BA.5.2), His Tag at 5µg/ml (100µl/Well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC50 of 27.0ng/ml determined by ELISA.