

SARS-CoV-2 Spike RBD (Omicron BA.2.75) Protein

Cat. No. BA2-HM175

Description

Source	Recombinant SARS-CoV-2 Spike RBD (Omicron BA.2.75) Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Arg319-Phe541(G339H, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, G446S, N460K, S477N, T478K, E484A, Q498R, N501Y, Y505H).
Accession	QHD43416.1
Molecular Weight	The protein has a predicted MW of 26.12 kDa. Due to glycosylation, the protein migrates to 35-43 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

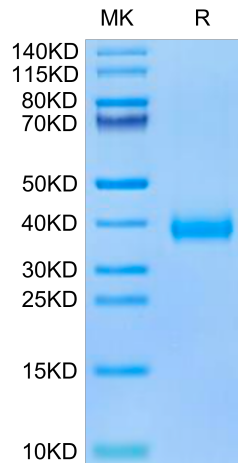
Formulation	Supplied as 0.22µm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

The ongoing coronavirus disease 2019 (COVID-19) pandemic has prioritized the development of small-animal models for severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). The resulting mouse-adapted strain at passage 6 (called MASCp6) showed increased infectivity in mouse lung and led to interstitial pneumonia and inflammatory responses in both young and aged mice after intranasal inoculation. Deep sequencing revealed a panel of adaptive mutations potentially associated with the increased virulence. In particular, the N501Y mutation is located at the receptor binding domain (RBD) of the spike protein.

Assay Data

Tris-Bis PAGE



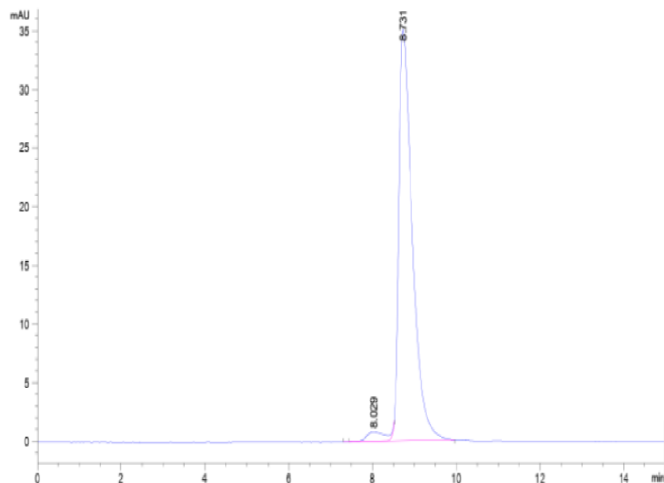
SARS-CoV-2 Spike RBD (Omicron BA.2.75) on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

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Assay Data

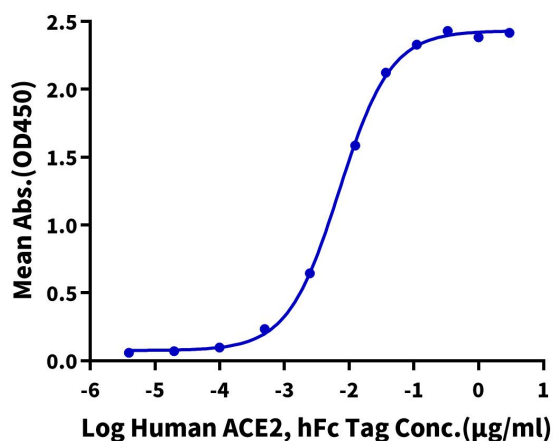


The purity of SARS-CoV-2 Spike RBD (Omicron BA.2.75) is greater than 95% as determined by SEC-HPLC.

ELISA Data

SARS-COV-2 Spike RBD (Omicron BA.2.75), His Tag ELISA

0.05µg SARS-COV-2 Spike RBD (Omicron BA.2.75), His Tag Per Well



Immobilized SARS-COV-2 Spike RBD (Omicron BA.2.75) , His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC50 of 7.0ng/ml determined by ELISA.