Active Recombinant COVID-19 Spike RBD protein(BA.4&BA.5/Omicron), His-Avi-tagged, Biotinylated

Cat. No. Spike-709V **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotinylated Recombinant COVID-19 Spike RBD protein(BA.4&BA.5/Omicron)(Arg 319 - Lys 537)(Accession # QHD43416.1(G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452R, S477N, T478K, E484A, F486V, Q498R, N501Y, Y505H)), fused with His and Avi tag at the C-terminus, was expressed in HEK293.
Species	Sars-CoV-2
Source	HEK293
ProteinLength	Arg 319 - Lys 537
Form	Lyophilized from 0.22 μm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.
Bio-activity	Immobilized Biotinylated SARS-CoV-2 Spike RBD, His,Avitag (BA.4&BA.5/Omicron) at 1 μg/mL (100 μL/well) on streptavidin precoated (0.5 μg/well) plate can bind Human ACE2, Fc Tag with a linear range of 0.1-4 ng/mL.
Molecular Mass	The protein has a calculated MW of 28.3 kDa. The protein migrates as 34-37 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per μg by the LAL method.

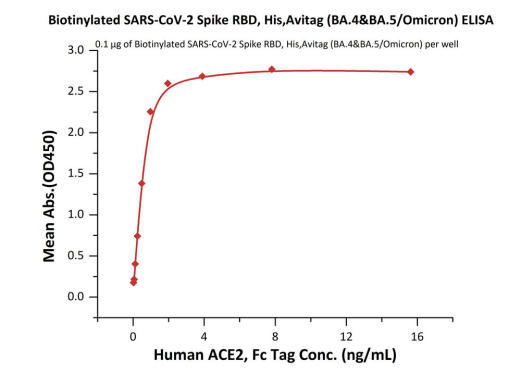
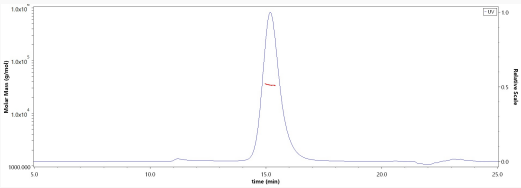
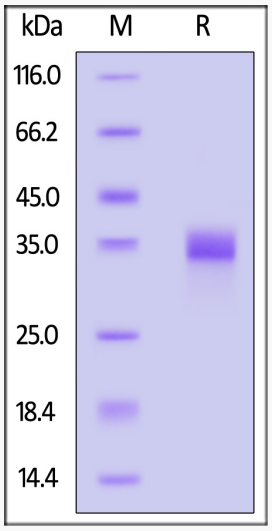
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Purity	>95% as determined by SDS-PAGE. >90% as determined by SEC-MALS.
Storage	This product is stable after storage at: -20°C to -70°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
Conjugation	Biotin

GENE INFORMATION

Gene Name	S surface glycoprotein [Severe acute respiratory syndrome coronavirus 2]
Official Symbol	Spike
Synonyms	Spike; S1 protein; Spike glycoprotein Subunit1; S glycoprotein Subunit1; Spike protein S1; COVID-19 Omicron
Gene ID	43740568
Protein Refseq	YP_009724390.1
UniProt ID	P0DTC2

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Bioactivity-ELISA	
SEC-MALS	
SDS-PAGE	

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