

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

Cat. No. Spike-710V **Lot. No.** (See product label)

SPECIFICATION

Product Overview	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 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 Human ACE2, Fc Tag at 5 µg/mL (100 µL/well) can bind SARS-CoV-2 Spike RBD, His Tag (BA.4&BA.5/Omicron) with a linear range of 16-125 ng/mL.
Molecular Mass	The protein has a calculated MW of 26.7 kDa. The protein migrates as 33-36 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>95% as determined by SDS-PAGE. >90% as determined by SEC-MALS.

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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.
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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.
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GENE INFORMATION

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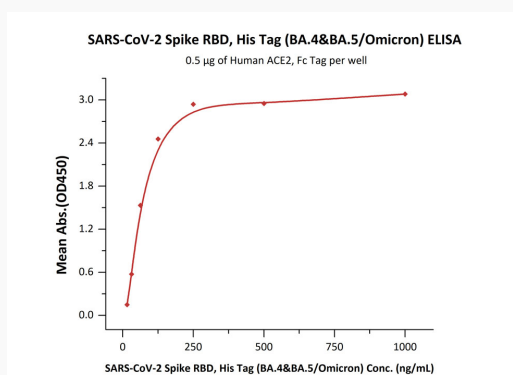
Synonyms	Spike; S1 protein; Spike glycoprotein Subunit1; S glycoprotein Subunit1; Spike protein S1; COVID-19 Omicron
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Gene ID	43740568
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Protein Refseq	YP_009724390.1
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UniProt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

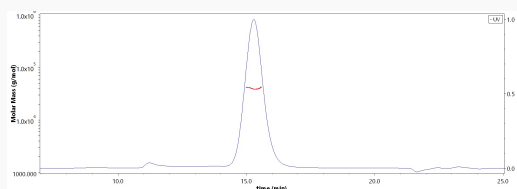


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SEC-MALS



SDS-PAGE

