Recombinant SARS-COV-2 Spike S1 (Omicron BA.2.12.1) protein, His-tagged

Cat. No. Spike-1596V **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant SARS-COV-2 Spike S1 (Omicron BA.2.12.1) protein(QHD43416.1)(Gln14-Arg683(T19I, L24S, PPA25-27 del, G142D, V213G, G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452Q, S477N, T478K, E484A, Q493R, Q498R, N501Y, Y505H, D614G, H655Y, N679K, P681H)), fused with C-terminal His tag, was expressed in HEK293.
Species	SARS-COV-2
Source	HEK293
ProteinLength	Gln14-Arg683(T19I, L24S, PPA25-27 del, G142D, V213G, G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452Q, S477N, T478K, E484A, Q493R, Q498R, N501Y, Y505H, D614G, H655Y, N679K, P681H)
Form	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Bio-activity	Immobilized SARS-CoV-2 Spike S1 (Omicron BA.2.12.1), His Tag at 2μg/ml (100μl/well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC50 of 14.7ng/ml determined by ELISA.
Molecular Mass	The protein has a predicted MW of 76.05 kDa. Due to glycosylation, the protein migrates to 100-120 kDa based on Tris-Bis PAGE result.

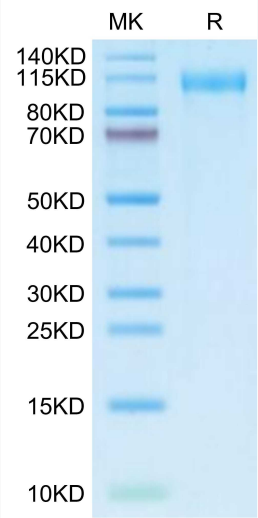
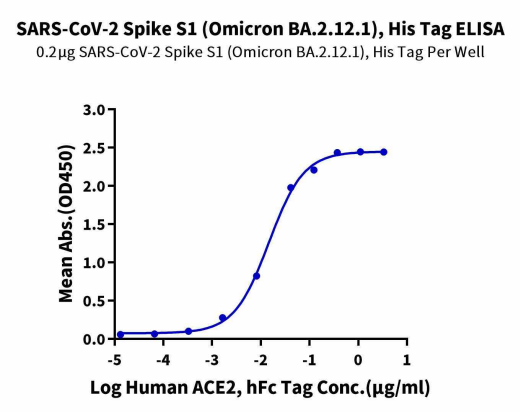
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Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE;> 95% as determined by HPLC
Storage	Reconstituted protein stable at -80°C for 12 months, 4°C for 1 week. Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
Reconstitution	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.

GENE INFORMATION

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

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Tris-Bis PAGE	
ELISA	

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