

SARS-CoV-2 XBB.1.16 (Omicron) Spike S1 Recombinant Protein | SARS-CoV-2 recombinant protein

SARS-CoV-2 XBB.1.16 (Omicron) Spike S1 Protein (His Tag)(HPLC-verified)

CATALOG # AAA27782	HOST HEK293 Cells
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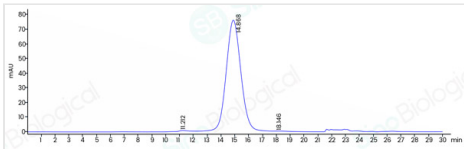
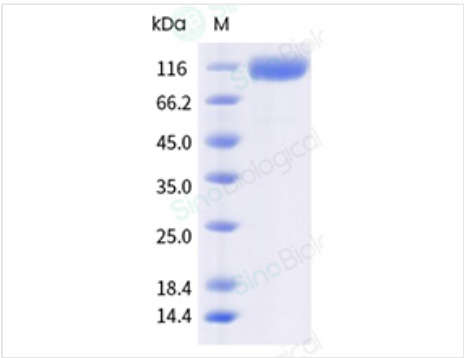
PRODUCT SYNONYMS

SARS-CoV-2 XBB.1.16 (Omicron) Spike S1; SARS-CoV-2 XBB.1.16 (Omicron) Spike S1 Protein (His Tag)(HPLC-verified); SARS-CoV-2 recombinant protein

PRODUCT SPECIFICATIONS

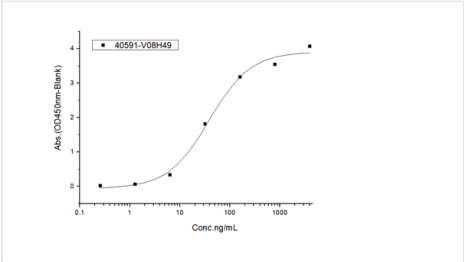
Host	HEK293 Cells
Purity/Purification	≥ 95% as determined by SDS-PAGE. ≥95% as determined by SEC-HPLC.
Form/Format	Lyophilized from sterile PBS, pH 7.4. Normally 5 % mannitol and 0.01% Tween80.
Source	SARS-CoV-2
Source Note	HEK293 Cells-derived SARS-CoV-2 XBB.1.16 (Omicron) Spike S1 Protein (His Tag) (HPLC-Verified) Met1-Arg685, Accession # YP_009724390.1
Predicted N Terminal	Val 16
Endotoxin	<1.0 EU per ug protein as determined by the LAL method.
Protein Construction	A DNA sequence encoding the SARS-CoV-2 (XBB.1.16) Spike S1 (YP_009724390.1, with mutations T19I, V83A, G142D, H146Q, E180V, Q183E, V213E, G252V, G339H, R346T, L368I, V445P, G446S, N460K, S477N, T478R, E484A, F486P, F490S, Q498R, N501Y, Y505H, D614G, H655Y, N679K, P681H)(Met1-Arg685) was expressed with a polyhistidine tag at the C-terminus. The mutations were identified in the SARS-CoV-2 variant (known as variant XBB.1.16).
Activity	Immobilized Recombinant Human ACE2/Angiotensin-Converting Enzyme 2 Protein (Fc Tag)(Cat:10108-H05H) at 2 ug/mL (100 ul/well) can bind Recombinant SARS-CoV-2 XBB.1.16 (Omicron) Spike S1 Protein (His Tag)(Cat:AAA27782), the EC50 is 25-75 ng/mL.
Reconstitution	Reconstituted with sterile deionized water to 0.25% mg/mL.
Molecular Mass Note	The recombinant SARS-CoV-2 (XBB.1.16) Spike S1 consists of 681 amino acids and predicts a molecular mass of 76.6 kDa. As a result of glycosylation, it migrates as an approximately 110.02 kDa band in SDS-PAGE under reducing conditions.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. It is recommended to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.

IMAGES



Application Data

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Immobilized Recombinant Human ACE2 / Angiotensin-Converting Enzyme 2 Protein (Fc Tag) (Cat:10108-H05H) at 2 ug/mL (100 ul/well) can bind Recombinant SARS-CoV-2 XBB.1.16 (Omicron) Spike S1 Protein (His Tag) (Cat:AAA27782), the EC50 is 25-75 ng/mL.

ADDITIONAL INFORMATION

References

Shen S, et al. (2007) Expression, glycosylation, and modification of the spike (S) glycoprotein of SARS CoV. Methods Mol Biol. 379: 127-35.
Du L, et al. (2009) The spike protein of SARS-CoV--a target for vaccine and therapeutic development. Nat Rev Microbiol. 7 (3): 226-36.
Xiao X, et al. (2004) The SARS-CoV S glycoprotein. Cell Mol Life Sci. 61 (19-20): 2428-30.

NCBI AND UNIPROT INFORMATION

Molecular Weight

Predicted Molecular Mass: 76.6 kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/sars-cov-2-xbb-1-16-omicron-spike-s1-recombinant-protein-hek293-cells/27782>