

Active Recombinant COVID-19 Omicron S-ECD protein, His-tagged

Cat. No. Spike-680V **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant COVID-19 Omicron S-ECD (S1+S2, YP_009724390.1) (Met1-Pro1213) (A67V, Δ69-70, T95I, G142D/Δ143-145, Δ211/L212I, ins214EPE, G339D, S371L, S373P, S375F, K417N, N440K, G446S, S477N, T478K, E484A, Q493R, G496S, Q498R, N501Y, Y505H, T547K, D614G, H655Y, N679K, P681H, N764K, D796Y, N856K, Q954H, N969K, L981F) protein, fused to C-terminal His tag, was expressed in HEK293.
Species	Sars-CoV-2
Source	HEK293
ProteinLength	Met1-Pro1213
Form	Lyophilized from sterile 25mM sodium citrate200mM NaCl, 0.02% tween80, pH6.0.
Bio-activity	Immobilized human ACE2 protein (mFc tag) at 2 μg/mL (100 μL/well) can bind SARS-CoV-2 B.1.1.529 (Omicron) S1+S2 trimer Protein (ECD, His Tag), the EC50 is 4-15 ng/mL.
Molecular Mass	The recombinant SARS-CoV-2 Spike S1+S2 consists of 1228 amino acids and predicts a molecular mass of 136.67 kDa.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method

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Purity	> 90 % as determined by SDS-PAGE. > 95 % as determined by SEC-HPLC.
Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
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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