Biotinylated SARS-COV-2 Spike S (Omicron B.1.1.529) Trimer Protein

Catalog # SARS-HB003 Form: Lyophilized

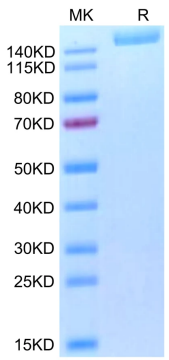
Product Details

Product description	Recombinant Biotinylated SARS-CoV-2 Spike S (Omicron B.1.1.529) Trimer Protein is expressed in HEK293 cells with a His tag and Avi tag at the C-terminus. It contains amino acid residues Val16-Pro1213(A67V, HV69-70del, T95I, G142D, VYY143-145del, N211del, 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) trimer design. Proline substitutions (F817P, A892P, A899P, A942P, K986P, V987P) and alanine substitutions (R683A and R685A) are introduced to stabilize the trimeric prefusion state of SARS-CoV-2 S protein and abolish the furin cleavage site, respectively (accession: QHO60594.1).
Molecular aliases	S protein; Spike glycoprotein; S glycoprotein; COVID-19; COVID19
Expression system	HEK293
Molecular weight	The protein has a predicted MW of 136.70 kDa. Due to glycosylation, the protein migrates to 140-180 kDa based on Bis-Tris PAGE result.
Purity	> 95% as determined by Bis-Tris PAGE
Endotoxin	Less than 1 EU per μg by the LAL method.
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
State	Lyophilized
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Activity validation	Activity verified

Protein Integrity

Bis-Tris PAGE

Representative product-page data



Reported result

Biotinylated SARS-CoV-2 Spike S (Omicron B.1.1.529) Trimer on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.