SARS-CoV-2 JN.1 (Omicron) Spike S1+S2 trimer Protein (ECD, His Tag)(HPLC-verified)

Catalog Number: 40589-V08H59

Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

Protein Construction:

A DNA sequence encoding the SARS-CoV-2 (JN.1) Spike S1+S2 (YP_009724390.1, with mutations ins16MPLF, T19I, R21T, L24del, P25del, P26del, A27S, S50L, H69del, V70del, V127F, G142D, Y144del, F157S, R158G, N211del, L212I, V213G, L216F, H245N, A264D, I332V, G339H, K356T, S371F, S373P, S375F, T376A, R403K, D405N, R408S, K417N, N440K, V445H, G446S, N450D, L452W, L455S, N460K, S477N, T478K, N481K, V483del, E484K, F486P, Q498R, N501Y, Y505H, E554K, A570V, D614G, P621S, H655Y, N679K, P681R, N764K, D796Y, F817P, A892P, A899P, S939F, A942P, Q954H, N969K, K986P, V987P, P1143L and furin cleavage site mutants) expressed with the bacteriophage T4 fibritin and a polyhistidine tag at the C-terminus. The mutations were identified in the SARS-CoV-2 variant (known as variant JN.1).

Source: SARS-CoV-2

Expression Host: HEK293 Cells

QC Testing

Purity: ≥ 95 % as determined by SDS-PAGE, ≥ 90 % as determined by SEC-HPLC, ≥ 90 % as determined by SEC-MALS.

Bio Activity:

Immobilized Recombinant Human ACE2 / Angiotensin-Converting Enzyme 2 Protein (Fc Tag) (Cat:10108-H05H) at 2 μg/mL (100 μl/well) can bind Recombinant SARS-CoV-2 JN.1 (Omicron) Spike S1+S2 trimer Protein (ECD, His Tag) (Cat:40589-V08H59), the EC50 is 10-30 ng/mL.

Endotoxin:

< 1.0 EU per μg of the protein as determined by the LAL method

Predicted N terminal: Val 16

Molecular Mass:

The recombinant SARS-CoV-2 (JN.1) Spike S1+S2 consists of 1227 amino acids and predicts a molecular mass of 136.51 kDa. The molecular weight of this protein is around 534.8 kDa verified by SEC-MALS.

Formulation:

Lyophilized from a sodium citrate buffer system at pH 6.0.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of datasheet. Please contact us for any concerns or special requirements.

Usage Guide

Stability & Storage:
Samples are stable for twelve months from date of receipt at -20℃ to -80℃.

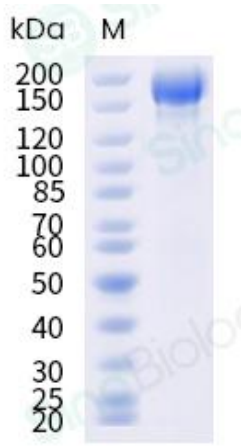
Store it under sterile conditions at -20℃ to -80℃ upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



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