

SARS-COV-2 JN.1 (Omicron) Spike RBD Protein (aa319-529, His Tag)(HPLC-verified)

Catalog Number: 40592-V08H155



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

Protein Construction:

A DNA sequence encoding the SARS-CoV-2 (JN.1) Spike RBD (YP_009724390.1, with mutation 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) (Arg319-Lys529) was expressed with 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.

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 RBD Protein (aa319-529, His Tag) (Cat: 40592-V08H155), the EC50 is 4-12 ng/mL.

Endotoxin:

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

Predicted N terminal: Arg 319

Molecular Mass:

The recombinant SARS-CoV-2 (JN.1) Spike RBD consists of 221 amino acids and predicts a molecular mass of 25.34 kDa. As a result of glycosylation, it migrates as an approximately 38.1 kDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4.

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°C to -80°C.

Store it under sterile conditions at -20°C to -80°C 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:

