SARS-COV-2 KP.2 (Omicron) Spike RBD Protein (His Tag)

Catalog Number: 40592-V08H156

General Information

Gene Name Synonym:

Protein Construction:

A DNA sequence encoding the SARS-CoV-2 (KP.2) Spike RBD (YP_009724390.1, with mutation I332V, G339H, R346T, K356T, S371F, S373P, S375F, T376A, R403K, D405N, R408S, K417N, N440K, V445H, G446S, N450D, L452W, L455S, F456L, 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 KP.2).

Source: SARS-CoV-2

Expression Host: HEK293 Cells

QC Testing

Purity: ≥ 95 % as determined by SDS-PAGE. ≥ 95 % 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 KP.2 (Omicron) Spike RBD Protein (His Tag) (Cat: 40592-V08H156) , the EC50 is 8-25 ng/mL.

Endotoxin:

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

Predicted N terminal: Arg 319

Molecular Mass:

The recombinant SARS-CoV-2 Spike RBD consists of 221 amino acids and predicts a molecular mass of 25.25 kDa. As a result of glycosylation, it migrates as an approximately 38.5 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℃ 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: