SARS-CoV-2 (2019-nCoV) Spike S1(HV69-70 deletion, N501Y, D614G)-His Recombinant Protein
Catalog Number: 40591-V08H7

General Information

Gene Name Synonym:
coronavirus spike; cov spike; ncoV RBD; ncoV s1; ncoV s2; ncoV spike; NCP-CoV RBD; NCP-CoV s1; NCP-CoV s2; NCP-CoV Spike; novel coronavirus RBD; novel coronavirus s1; novel coronavirus s2; novel coronavirus spike; RBD; S1; S2; Spike RBD

Protein Construction:
A DNA sequence encoding the SARS-CoV-2 (2019-nCoV) Spike S1(HV69-70 deletion, N501Y, D614G)-His Recombinant Protein (YP_009724390.1) (Met1-Arg685(HV69-70 deletion, N501Y, D614G)) was expressed with a polyhistidine tag at the C-terminus.

Source: 2019-nCoV
Expression Host: HEK293 Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE.

Bio-activity:
Measured by its binding ability in a functional ELISA. Immobilized Human ACE2 (mFc tag)(Cat: 10108-H05H) at 2 μg/mL (100 μL/well) can bind SARS-CoV-2 (2019-nCoV) Spike S1(HV69-70 deletion, N501Y, D614G)-His(Cat:40591-V08H7), the EC50 of SARS-CoV-2 (2019-nCoV) Spike S1(HV69-70 deletion, N501Y, D614G)-His(Cat:40591-V08H7) is 8-50 ng/mL.

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

Predicted N terminal: Val 16

Molecular Mass:
The recombinant SARS-CoV-2 (2019-nCoV) Spike S1(HV69-70 deletion, N501Y, D614G)-His Recombinant Protein consists of 679 amino acids and predicts a molecular mass of 76.2 kDa. As a result of glycosylation, it migrates as an approximately 106.6 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 COA. 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.

References