SARS-CoV-2 (2019-nCoV) Spike Protein (S1 Subunit, Fc Tag)
Catalog Number: 40591-V02H

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 protein S1 Subunit (QHD43416.1) (Val16-Arg685) was expressed with the Fc region of human IgG1 at the C-terminus.

Source: 2019-nCoV
Expression Host: HEK293 Cells

QC Testing

Purity: > 85 % as determined by SDS-PAGE.
Bio-activity:
Measured by its binding ability in a functional ELISA. Immobilized human ACE2 protein (His tag) at 2 μg/mL (100μL/well) can bind SARS-CoV-2 (2019-nCoV) Spike Protein (S1 Subunit, Fc Tag)(40591-V02H), the EC50 of SARS-CoV-2 (2019-nCoV) Spike Protein (S1 Subunit, Fc Tag) is 25-60 ng/mL.

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

Predicted N terminal: Val16

Molecular Mass:
The recombinant SARS-CoV-2 (2019-nCoV) Spike Protein (S1 Subunit, Fc Tag) consists of 908 amino acids and predicts a molecular mass of 101.7 kDa.

Formulation:
Lyophilized from sterile PBS, pH 7.4.

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:

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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.

References