SARS-CoV-2 (2019-nCoV) Spike RBD(K417N, E484K, N501Y)-His Recombinant Protein, Biotinylated

Catalog Number: 40592-V08H85-B

General Information

Gene Name Synonym:
Spike

Protein Construction:
A DNA sequence encoding the SARS-CoV-2 (2019-nCoV) Spike RBD (YP_009724390.1, with mutations K417N, E484K, N501Y) (Arg319-Phe541) was expressed with a polyhistidine tag at the C-terminus. The purified protein was biotinylated in vitro. The mutations were identified in the SARS-CoV-2 variant (known as 20C/501Y.V2 or B.1.351 lineage) which emerged in South Africa.

Source: SARS-CoV-2
Expression Host: HEK293 Cells

QC Testing

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

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

Predicted N terminal: Ser

Molecular Mass:
The recombinant SARS-CoV-2 (2019-nCoV) Spike RBD consists of 235 amino acids and predicts a molecular mass of 26.7 kDa. As a result of glycosylation, it migrates as an approximately 36 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.

SDS-PAGE:

Reference: