SARS-CoV Spike Protein (RBD, His Tag)

Catalog Number: 40150-V08B2

General Information

Gene Name Synonym:
coronavirus s1; coronavirus s2; coronavirus spike; cov spike; ncov RBD; ncov s1; ncov s2; ncov 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 receptor binding domain (RBD) of SARS-CoV (isolate:WH20) spike (AAX16192.1) (Arg306-Phe527) was expressed with a C-terminal polyhistidine tag.

Source: SARS

Expression Host: Baculovirus-Insect Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

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

Predicted N terminal: Arg 306

Molecular Mass:
The recombinant receptor binding domain (RBD) of SARS-CoV (isolate:WH20) spike comprises 233 amino acids and has a predicted molecular mass of 26.5 kDa. The apparent molecular mass of the protein is approximately 35.1 kDa in SDS-PAGE under reducing conditions.

Formulation:
Lyophilized from sterile 20 mM PBS, 500 mM NaCl, 10 % glycerol, pH 7.0.

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