SARS-CoV-2 (2019-nCoV) Spike S1-His Recombinant Protein (HPLC-verified)

Catalog Number: 40591-V08H

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 (YP_009724390.1) (Val16-Arg685) was expressed with a polyhistidine tag at the C-terminus.

Source: 2019-nCoV

Expression Host: HEK293 Cells

QC Testing

Purity: > 90 % as determined by SDS-PAGE. > 95 % as determined by SEC-HPLC.

Bio Activity:
1. Measured by its binding ability in a functional ELISA. Immobilized human ACE2 protein (Fc tag)(Cat: 10108-H05H) at 2 μg/mL (100 μL/well) can bind SARS-CoV-2/2019-nCoV Spike Protein (S1 Subunit, His tag) (40591-V08H), the EC50 of SARS-CoV-2/2019-nCoV Spike Protein (S1 Subunit, His tag) (Cat: 40591-V08H) is 200-600 ng/mL.

2. Loaded ACE2 Protein, Human, Recombinant (mFc Tag) (Cat. No. 10108-H05H) on AMC Biosensor, can bind SARS-CoV-2 (2019-nCoV) Spike S1-His Recombinant Protein (Cat. No. 40591-V08H) with an affinity constant of 47.7 nM as determined by Octet RED System.

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, His Tag) consists of 681 amino acids and predicts a molecular mass of 76.5 kDa.

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

Manufactured By Sino Biological Inc.
Tel: 215-583-7898 (US); +86-400-890-9989(Global) http://www.sinobiological.com
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SEC-HPLC:

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