

SARS-CoV-2 (2019-nCoV) NSP7-Recombinant Protein



Sino Biological
Biological Solution Specialist

Catalog Number: 40617-VNCE

General Information

Gene Name Synonym:

NSP7-CoV

Protein Construction:

A DNA sequence encoding the SARS-CoV-2 (2019-nCoV) NSP7 Protein (YP_009725303.1) (Ser1-Gln83) was expressed with two amino acids (GP) at the N-terminus.

Source: 2019-nCoV

Expression Host: E. coli

QC Testing

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

Endotoxin:

Please contact us for more information.

Predicted N terminal: Gly

Molecular Mass:

The recombinant SARS-CoV-2 (2019-nCoV) NSP7 protein consists of 85 amino acids and predicts a molecular mass of 9.4 kDa.

Formulation:

Lyophilized from sterile 20 mM Tris, 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:



Protein Description

NSP7 is conserved within the coronaviridae. NSP7 is a component of the coronavirus replicase polyprotein to comprise a replication complex. NSP7 has been shown to interact with NSP10 and NSP1 which indicate that NSP7 has a function in coronavirus-specific RNA replication mechanisms.

References

1. Wolfgang Peti, et al. Structural Genomics of the Severe Acute Respiratory Syndrome Coronavirus: Nuclear Magnetic Resonance Structure of the Protein nsP7. JOURNAL OF VIROLOGY. 2005
2. Yibei Xiao, et al. Nonstructural proteins 7 and 8 of feline coronavirus form a 2:1 heterotrimer that exhibits primer-independent RNA polymerase activity. J Virol. 2012