

SARS-CoV-2 (2019-nCoV) NSP8-AVI Recombinant Protein

Catalog Number: 40618-V17E



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

NSP8

Protein Construction:

A DNA sequence encoding the SARS-CoV-2 (2019-nCoV) NSP8 Protein (YP_009725304.1) (Ala1-Gln198) was expressed with a AVI tag at the C-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) NSP8 consists of 220 amino acids and predicts a molecular mass of 24.17 kDa.

Formulation:

Lyophilized from sterile 20mM Tris 500mM NaCl 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

NSP8 is a nonstructural protein of coronavirus. NSP8 acts as a primase in RNA synthesis. NSP8 and NSP7 are essential co-factors of NSP12 (the catalytic subunit with RNA-dependent RNA polymerase activity) that can remarkably stimulates RdRp activity. The nsp12-nsp7-nsp8 subcomplex is defined as the minimal core component for mediating coronavirus RNA synthesis.

References

1. Qi Peng, et al. Structural and Biochemical Characterization of the nsp12-nsp7-nsp8 Core Polymerase Complex from SARS-CoV-2. Cell Reports. 2020
2. Yan Gao, et al. Structure of the RNA-dependent RNA polymerase from COVID-19 virus. Science. 2020
3. Purnima Kumar, et al. The nonstructural protein 8 (nsp8) of the SARS coronavirus interacts with its ORF6 accessory protein. Virology. 2007