

Recombinant SARS-CoV-2 Nucleocapsid Protein

Catalog Number: SYN-A1003

GENERAL INFORMATION

Source: Recombinant protein of SARS-CoV-2 (2019-nCoV) *nucleocapsid* (N) from Wuhan pneumonia virus (MN908947.3), with a C-terminal DYKDDDDK tag.

Accession: NC_045512.2; YP_009724397.1; Gene ID: 43560237;

QC TESTING

Purity: >90% by SDS-PAGE gel and Coomassie Blue staining

Endotoxin: Endotoxin level is < 0.1 ng/μg of protein (<1 EU/μg)

FORMULATION AND STORAGE

Formulation: Protein formulated in a solution of 50 mM Tris.Cl, pH7.4, 0.1M glycine, 150 mM NaCl, and 5% glycerol;

Storage: The product is shipped with dry ice. Upon receipt, the unopened vial can be stored at -80°C for over 12 months. Avoid repeated freeze/thaw cycles. The product can also be aliquoted into smaller-sized working aliquots with the desired buffer and concentration, and stored at or below -20°C stable for 3 to 4 weeks.

BACKGROUND

Background: The coronavirus Nucleocapsid (N) is a multifunctional structural protein. The N protein of CoVs forms the helical ribonucleocapsid complexes with positive strand viral genomic RNA, and interacts with viral membrane protein during virion assembly, playing an important role in enhancing the efficiency of virus replication, transcription, and assembly