

## SARS-CoV-2 Nucleocapsid protein (NP)

<b>Origin:</b>	Recombinant	<b>Cat No.</b>	41A220
<b>Source:</b>	<i>E.coli</i>	<b>Size:</b>	0.1 mg
<b>Tag:</b>	No Tag	<b>Purity:</b>	>95%

### Introduction

Since December 2019, outbreak of SARS-CoV-2 infection has become a major epidemic threat in China and brought back the attention of pathogenic coronavirus to the spotlight. Nucleocapsid protein (NP) is the most abundant protein on the helical nucleocapsid of coronaviruses, which envelopes the entire genomic RNA. NP also interacts with other viron structural proteins to play important roles during host cell entry and virus particle assembly and release.

### Description

Expressed in *E.coli* with total 418 AA. Mw: 45.5 KDa (calculated).

**Recombinant antigen for research use or manufacturing only.**

### Antigenicity Test

Antigenicity validated in 16 patient serum samples via ELISA by coating SARS-CoV-2 NP as capture antigen, with a detection rate of 93.75%.

**Strong antigenic response even in 70000-fold diluted patient serum.**

### Amino Acid Sequence

SDNGPQNQRNAPRITFGGSPDSTGSNQNNGERSGARSKQRRPQGLPNNTASWFTALTQHGKEDLKFPRGQ  
 GVPINTNSSPDDQIGYYRRATRRIRGGDGKMKDLSRWYFYLLGTGPEAGLPYGANKDGIWVATEGALNT  
 PKDHIGTRNPANNAIVLQLPQGTTLPKGFYAEGSRGGSSQASSRSSSRSRNSSRNSTPGSSRGTSAPARMA  
 GNGGDAALALLLDRLNQLSKMSGKGGQQGQTVTKKSAAEASKKPRQKRTATKAYNVTQAFGRRGPE  
 QTQGNFGDQELIRQGTDYKHWPQIAQFAPSASAFFGMSRIGMEVTPSGTWLTYTAAIKLDDKDPNFKDQVIL  
 LNKHIDAYKTFPPTEPKKDKKKKADEQALPQRQKQQTVTLPAADLDDFSKQLQQSMSSADSTQA

### Formulation

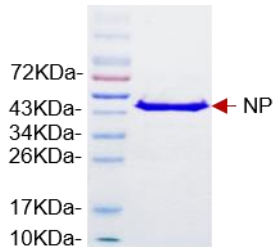
As liquid with vials containing NP to 1.0mg/mL in 50mM Tris, 300mM NaCl, 10% Glycerol, PH8.0.

### Quality Control Test

BCA to determine quantity of the protein.

SDS PAGE to determine purity of the protein.

### SDS-PAGE Gel



Nucleoprotein (NP) of  
SARS-CoV-2

