

## SARS-CoV Nucleocapsid Protein E. coli

### Product Data Sheet

**Type:** Recombinant  
**Source:** E. coli  
**Species:** SARS

**Cat. No.:**  
RD972052100 (0.1 mg)

### Description

Total 437 AA. MW: 47.8 kDa (calculated). UniProtKB acc.no. P59595. N-Terminal His-tag 16 AA (highlighted).

### Research topic

Immune Response, Infection and Inflammation

### Amino Acid Sequence

**MRGSHHHHHH GMASHM**SDNG PQSNQRSAPR ITFGGPTDST DNNQNGGRNG ARPKQRRPQG LPNNTASWFT ALTQHGKEEL  
RFPRGQGVPI NTNSGPDDQI GYYRRATRRV RGGDGKMKEL SPRWYFYLYG TGPEASLPYG ANKEGIVVVA TEGALNTPKD  
HIGTRNPNNN AATVLQLPQG TTLPKGFYAE GSRGGSQASS RSSSRSRGNS RNSTPGSSRG NSPARMASGG GETALALLLL  
DRLNQLESKV SGKGQQQQGQ TVTKKSAAEA SKKPRQKRTA TKQYNVTQAF GRRGPEQTQG NFGDQDLIRQ GTDYKHWPQI  
AQFAPSASAF FGMSRIGMEV TPSGTWLTYPH GAIKLDDKDP QFKDNVILLN KHIDAYKTFP PTEPKKDKKK KTDEAQPLPQ  
RQKKQPTVTL LPAADMDDFS RQLQNSMSG A SADSTQA

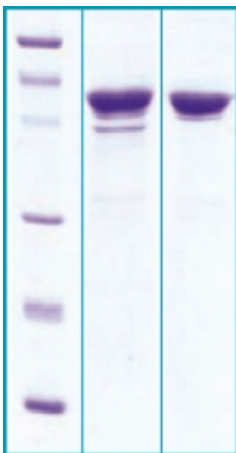
### Source

E. coli

### Purity

>95%

### SDS-PAGE gel



12% SDS-PAGE separation of SARS-CoV Nucleocapsid protein

1. M.W. marker - 14, 21, 31, 45, 66, 97 kDa
2. reduced and heated sample, 5µg/lane
3. non-reduced and non-heated sample, 5µg/lane

### Formulation

Filtered (0,4 µm) and lyophilized in 0.5 mg/mL in 0.05 M Acetate buffer pH4

### Reconstitution

Add 0.1M Acetate buffer pH4 to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 10µg/mL. In higher concentrations the solubility of this antigen is limited. Filter sterilize your culture media/working solutions containing this non-sterile product before using in cell culture.

### Shipping

At ambient temperature. Upon receipt, store the product at the temperature recommended below.

## Storage, Stability/Shelf Life

Store lyophilized protein at -80°C. Lyophilized protein remains stable until the expiry date when stored at -80°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after one week at 4°C.

## Quality Control Test

BCA to determine quantity of the protein.  
SDS PAGE to determine purity of the protein.

## Applications

Western blotting

## Note

This product is intended for research use only.

## References to this Product

- Shin GC, Chung YS, Kim IS, Cho HW, Kang C . *Preparation and characterization of a novel monoclonal antibody specific to severe acute respiratory syndrome-coronavirus nucleocapsid protein.* [Virus Res](#) . Dec;122(1-2):109-18 (2006)

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