

SARS-CoV

Description: The Recombinant SARS-CoV Nucleocapsid Protein is manufactured with N-terminal fusion HisTag. The Recombinant SARS-CoV Nucleocapsid His-Tagged Fusion Protein is 47.8 kDa containing 422 amino acid residues of the SARS-CoV Nucleocapsid protein and 15 additional amino acid residues HisTag (underlined).

Source: Escherichia coli.

Amino Acid Sequence: MRGSHHHHHH GMASHMSDNG PQSNQRSAPR ITFGGPTDST
DNNQNGGRNG ARPQRRPQG LPNNTASWFT ALTQHGKEEL RFPRGQGVPI NTNSGPDDQI
GYYRRATRRV RGGDGKMKEL SPRWYFYLYG TGPEASLPYG ANKEGIVVVA TEGALNTPKD
HIGTRNPNNN AATVLQLPQG TTLPKGIFYAE GSRGGSQASS RSSRSRGNS RNSTPGSSRG
NSPARMASGG GE

Purity: Greater than 95% as determined by SDS-PAGE.

Purification Method:

Three-step procedure using affinity Ni-NTA chromatography and size exclusion chromatography before and after refolding.

Specificity:

The amino acid sequence of the recombinant SARS-CoV Nucleocapsid protein is 100% homologous to amino acid sequence of the native SARS-CoV Nucleocapsid protein.

Formulation:

Sterile filtered and lyophilized from 0.5 mg/ml in 0.05M Acetate buffer pH4.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Applications:

Western blotting.

Solubility:

Add 0.2 ml of 0.1M Acetate buffer pH4 and let the lyophilized pellet dissolve completely. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 10g/ml. In higher concentrations the solubility of this antigen is limited.

Introduction:

SARS Coronavirus is an enveloped virus containing three outer structural proteins, namely the membrane (M), envelope (E), and spike (S) proteins. Spike (S)-glycoprotein of the virus interacts with a cellular receptor and mediates membrane fusion to allow viral entry into susceptible target cells. Accordingly, S-protein plays an important role in virus infection cycle and is the primary target of neutralizing antibodies.

Storage:

Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it

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does not show any change after two weeks at 4°C.



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