



Product Data Sheet

Cat # RP-1416

SARS-CoV Nucleocapsid (422a.a) Recombinant

Size: 10ug

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.

Usage:

This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

RP-1416

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Source: 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. Sterile filtered and lyophilized from 0.5 mg/ml in 0.05 M Acetate buffer pH4. Reconstitution: 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 10µg/ml. In higher concentrations the solubility of this antigen is limited.

Applications and Suggested Dilutions: >95% (SDS-PAGE analyzed). 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. Western blotting. Users must optimize the appropriate concentration and conditions for each assay.

Storage and Stability: Three-step procedure using affinity Ni-NTA chromatography and size exclusion chromatography before and after refolding. 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 does not show any change after two weeks at 4°C. The lyophilized protein remains stable until the expiry date when stored at -20°C. If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4°C for ~1 week or aliquots in suitable size and store at -20°C for long term storage.