

Recombinant SARS N protein, His-tagged

Cat. No. N-264S Lot. No. (See product label)

SPECIFICATION

Product Overview	The Recombinant SARS-CoV Nucleocapsid Protein is manufactured with N-terminal fusion HisTag. The Recombinant SARS-CoV Nucleocapsid His-Tagged Fusion Protein is 47.8kDa containing 422 amino acid residues of the SARS-CoV Nucleocapsid protein and 15 additional amino acid residues – HisTag (underlined).
Species	SARS
Source	E.coli
Description	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.
Form	Sterile filtered and lyophilized from 0.5 mg/ml in 0.05M Acetate buffer pH4.
Molecular Mass	47.8kDa
AA sequence	MRGSHHHHHHGMASHMSDNGPQSNQRSAPRITFGGPTDSTDNNQNGGRNGARP KQRRPQGLPNNTASWFTALTQHGKEELRFPRGQGVPIINTNSGPDDQIGYYRRATR RVRGGDGKMKELSPRWYFYLLGTGPEASLPYGANKEGIVWVATEGALNTPKDHIGT RNPNNNAATVLQLPQGTTLPKGFYAEGSRGGSQASSRSSSRSRGNSRNSTPGSSR GNSPARMASGGGETALALLLLDRLNQLLESKVS SGKGGQQQQGQTVTKKSAAEASKKP

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RQKRTATKQYNVTQAFGRRGPEQTQGNFGDQDLIRQGTDYKHWPQIAQFAPSASA
FFGMSRIGMEVTPSGTWLTYHGAIKLDDKDPQFKDNVILLNKHIDAYKTFPPTEPKKD
KKKKTDEAQLPQRQKKQPTVLLPAADMDDFSRQLQNSMSGASADSTQA.

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

Applications Western blotting.

Usage The 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.

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.

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 10µg/ml. In higher concentrations the solubility of this antigen is limited.

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

GENE INFORMATION

Gene Name N nucleocapsid protein [SARS coronavirus]

Official Symbol N

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Synonyms	structural protein; N; nucleocapsid protein
Gene ID	1489678
Protein Refseq	NP_828858.1
UniProt ID	P59595

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