

SARS-CoV-2 Nucleocapsid Protein, His-SUMO tag, HEK293

v. 230201

Catalog number	C11004-5UG / C11004-20UG / C11004-100UG
Package	5 µg / 20 µg / 100 µg
Description	Nucleocapsid protein (NP) packages the positive strand viral genome RNA into a helical ribonucleocapsid (RNP) and plays a fundamental role during virion assembly through its interactions with the viral genome and membrane protein M. NP also plays an important role in enhancing the efficiency of sub-genomic viral RNA transcription as well as viral replication. This product is composed of a DNA sequence encoding SARS-CoV-2 NP and a polyhistidine-SUMO tag at the N-terminus.
Source	HEK293
Sequence	MSDNGPQNQRNAPRITFGGSPDSTGSNQNNGERSGARSKQRRPQGLPNNTAS WFTALTQHGKEDLKFPRGQGVPIINTNSSPDDQIGYYRRATRIRGGDGKMKDL SPRWYFYLLGTGPEAGLPYGANKGIWVATEGALNTPKDHIGTRNPANNAIVL QLPQGTTLPKGFYAEGSRGGSQASSRSSSRNSSRNSTPGSSRGTSPTARM AGNGGDAALALLLLDRLNQLESKMSGKQQQQGQTVTKKSAAEASKPRQKRT ATKAYNVTQAFGRRGPEQTQGNFGDQELIRQGTDYKHWPIAQFAPSASAFF GMSRIGMEVTPSGTWLTYTGAIKLDDKDPNFKDQVILLNKHIDAYKTFPTEPKK DKKKKADETQALPRQKKQQTVLLPAADLDDFSKQLQQSMSSADSTQA with polyhistidine-SUMO tag at the N-terminus
Endotoxin level	<0.1 EU per 1 µg of the protein by the LAL method.
Purity	>98% as determined by SDS-PAGE. Ni-NTA chromatography
Formulation	The protein was lyophilized from a solution containing 1X PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Storage	Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C.
Note	Please use within one month after protein reconstitution.



SDS-PAGE analysis of recombinant SARS-CoV-2 Nucleocapsid Protein

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