



Synthelis®

Viral Protein

Protein Catalog

N-Protein : Nucleocapsid from Sars-Cov2

Product specification

Acronym: N-Protein

Origin species: Sars-Cov2

Protein reference : P0DTC9 (UniProtKB)

MN908947.3 (GenBank)

Family: G-protein coupled receptor

Expression system: E.coli based CFPS

Format: Proteoliposomes

Protein sequence: Met1 - Ala418

Tag : Histidine tag fused to the N-terminal end of the protein

Cleavage site: Factor Xa

Product MW: 47,7 kDa

Application: Drug screening & discovery, antibody development, structural biology

Product description

The N-protein packages the positive strand viral genome RNA into helical ribonucleocapsid (RNP) and plays a fundamental role during virion assembly through its interactions with the viral genome and membrane protein M. It also plays an important role in enhancing the efficiency of subgenomic viral RNA transcription as well as viral replication.

Recombinant protein sequence

His tag – factor X cleavage site -

MSGSHHHHHSSGIEGRGRMSDNGPQNQRNAPRITFGGPSDSTGSNQNTERSARSKQRRPQGLPNNTASWFTALTQHG
KEDLKFPRGQGVPIINTNSSPDDQIGYYRRATRRIRGGDGKMKDLSRWYFYLLGTGPEAGLPYGANKDGIWVATEGALNT
PKDHIGTRNPANNAIIVLQLPQGTTLPKGFYAEGSRGGSQASSRSSSRNSSRNSTPGSSRGTSARMAGNGGDAALALLL
LDRLNQLESKMSGKGOQQQGGQTVTKKSAEASKKPRQKRTATKAYNVTQAFGRRGPEQTQGNFGDQELIRQGTDYKHWP
QIAQFAPSASAFFGMSRIGMEVTPSGTWLTYTGAIKLDDKDPNFKDQVILLNKHIDAYKTFPPTEPKKDKKKKADETQALPQ
RQKKQQTVTLLPAADLDDFSKQLQQSMSSADSTQA

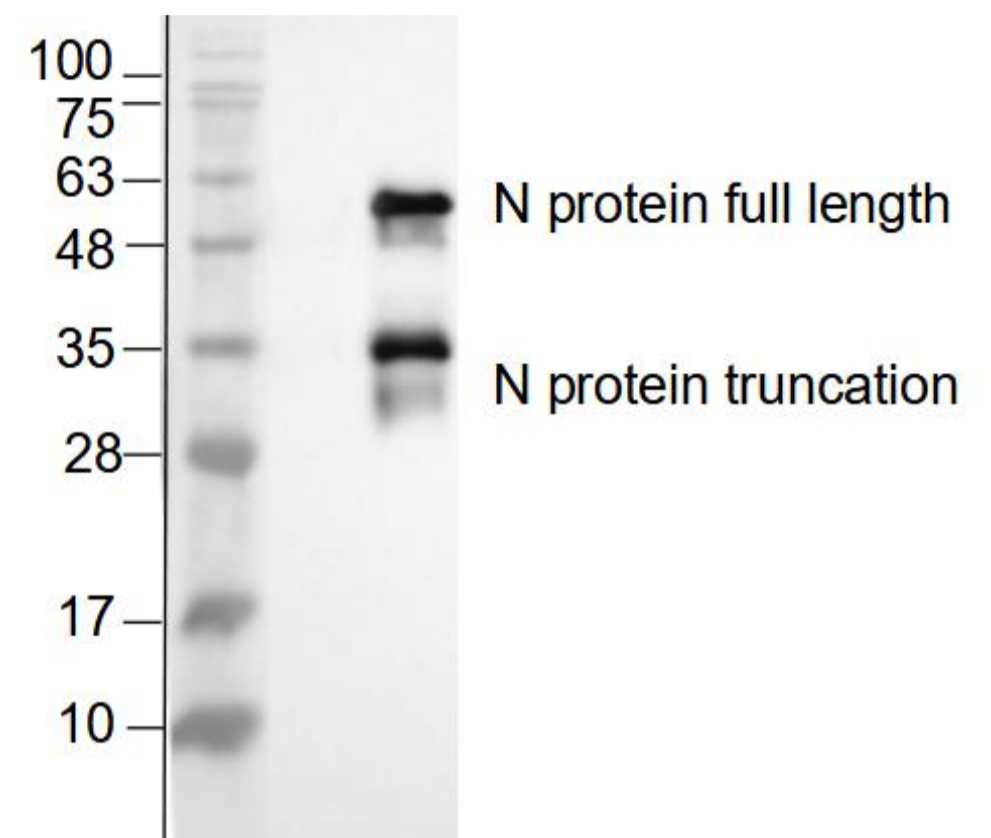


Quality analysis

Purity: Typically, > 90% as determined by SDS-Page and Coomassie Blue staining.

Purification procedure: As standard, N-protein was purified on a nickel-nitrilotriacetic acid resin. Further purification steps can be performed if required.

Fig.1: N-protein after purification (Western blot identification).



Formulation

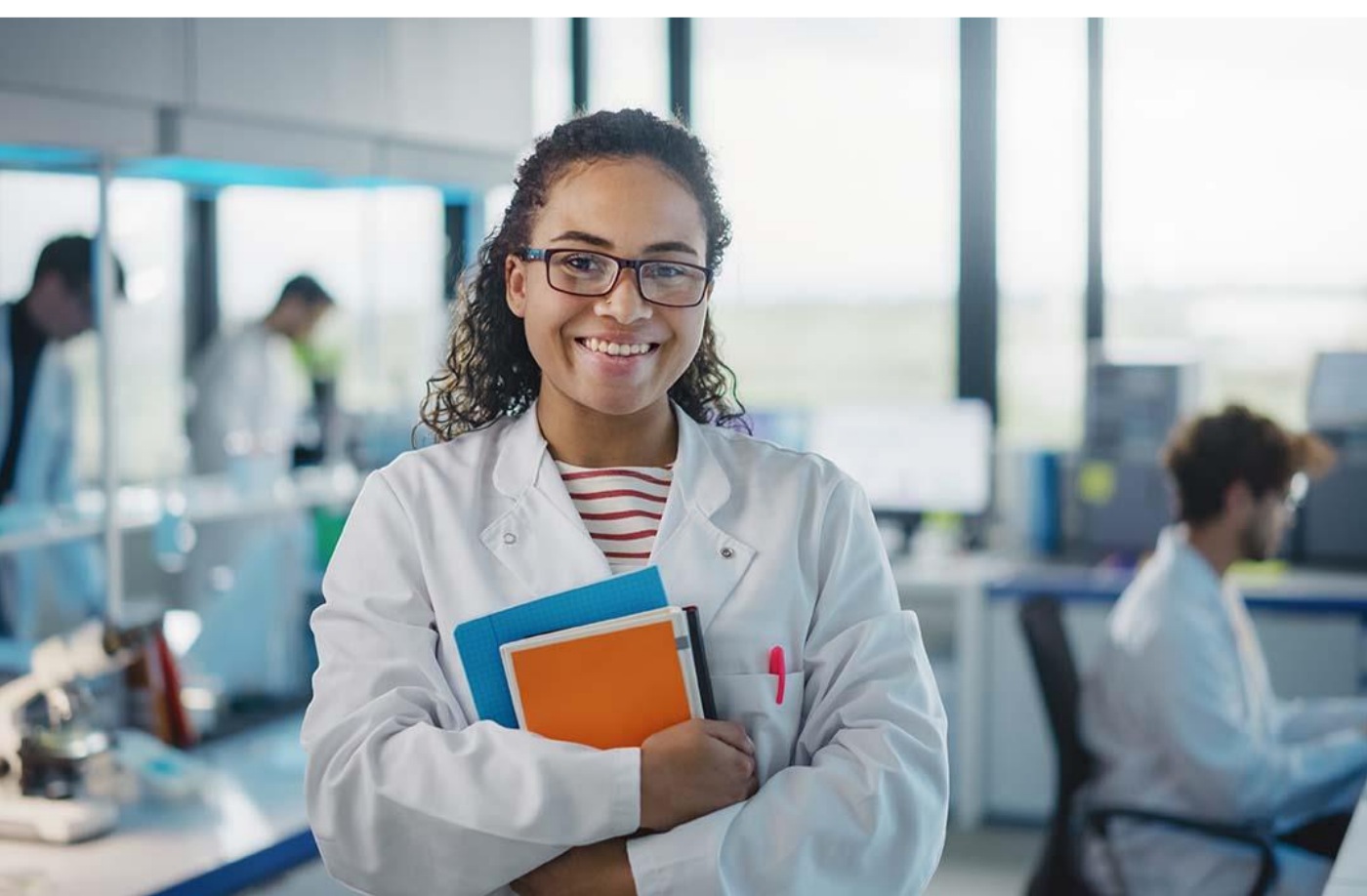
Buffer: Available in Tris 50mM, pH 7.5. Other buffers or customized formulation can be provided upon request.

Customized Hydrophobic matrix: Customized formulation with specific lipids like PEGylated or biotinylated lipids can be used upon request, as well as targeting molecules.

Storage/Stability: Store at +4°C for up to one week or several months at -80°C. Aliquot for storage.
Do not freeze-thaw after aliquoting.

Use restrictions: For life science research use only.

Available sizes: 10µg, 20µg, 100µg, 200µg, 500µg - higher quantity on request.



Need a specific amount, a quote or any additional information?
Contact-us



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