DATASHEET

For Research Use Only

REAGENT SARS-CoV-2 Nucleocapsid Protein (His-tagged)

REAGENT REFERENCE 101042

LOT NUMBER: lot 2

PROVIDED: 100µg at 1.1 mg/mL of purified protein HEPES buffered saline, 5% glycerol, 1 mM EDTA, pH 8.

DESCRIPTION: N-terminal mini-histidine-tagged fusion protein derived from SARS-CoV-2 nucleocapsid protein (SARS-CoV-2). NCBI Reference Sequence: Accession No. YP_009724397. Residues 9 – 426 of the sequence below (N-terminal histidine tag underlined) match amino acids 2- 419 of YP_009724397.

PROTEIN SEQUENCE;

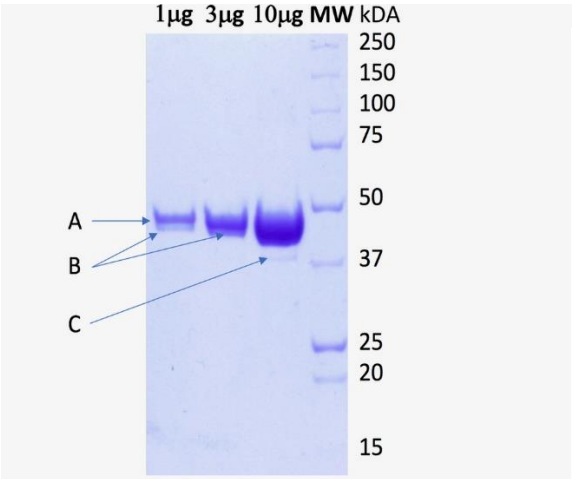
MHHHHHHGSDNGPQNQRNAPRITFGGPSDSTGSNQNGERSGARSKQRRPQGLPNNTASWF
TALTQHGKEDLKFPRGQGVPINTNSSPDDQIGYYRRATRRIRGGDGKMKDLSPRWYFYYLGT
GPEAGLPYGANKDGIIWVATEGALNTPKDHIGTRNPANNAAIVLQLPQGTTLPKGFYAEGSRGG
SQASSRSSSRSRNSSRNSTPGSSRGTSPARMAGNGGDAALALLLLDRLNQLESKMSGKGQQ
QQGQTVTKKSAAEASKKPRQKRTATKAYNVTQAFGRRGPEQTQGNFGDQELIRQGTDYKHW
PQIAQFAPSASAFFGMSRIGMEVTPSGTWLTYTGAIKLDDKDPNFKDQVILLNKHIDAYKTFPPT
EPKKDKKKKADETQALPQRQKKQQTVTLLPAADLDDFSKQLQQSMSSADSTQA

PURITY: Estimated by SDS-PAGE Nucleocapsid with less than 5% E. coli contaminant proteins.

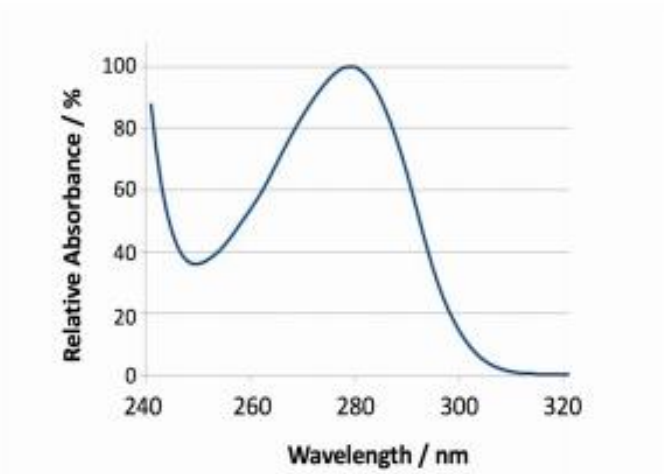
MOLECULAR WEIGHT: Experimental by Electrospray Ionisation MS, M+H+ ion 46508.08 is within 0.003% of calculated mass of M+H+ ion (46506.60).

HOMOGENEITY: ~ 95% by SDS-PAGE. Observable bands identified by MS as the expected protein.

ANALYTICAL DATA:



SDS-PAGE Analysis of His-tagged NCP
Protein loaded at 10, 3 or 1 µg/ well analyzed on a 10% polyacrylamide gel, stained with Coomassie Blue. Proteomic analysis indicates *E. coli* protein contamination of less than 1% in main band **A**. Bands **B** and **C** identified as fragments of NCP by proteomic analysis.



Absorbance spectrum of His-tagged NCP
Absorbance spectrum determined in aqueous buffer over wavelength range ~240 -320 nm

STORAGE: Keep at -80°C. Avoid freeze-thaw cycles as reagent degradation may result.

APPLICATION: Suitable for immunoassay.

DEPOSITOR: Prof Jon Sayers, The University of Sheffield, UK

ACKNOWLEDGMENTS Acknowledgment for publications should read "The following reagent was obtained from the Centre For AIDS Reagents, NIBSC, UK: SARS-CoV-2 Nucleoprotein (His-tagged) (#101042) from Prof Jon Sayers".

MATERIAL SAFETY SHEET

Physical properties (at room temperature)			
Physical appearance	Clear, liquid		
Fire hazard	None		
Chemical properties			
Stable	Yes	Corrosive:	No
Hygroscopic	No	Oxidising:	No
Flammable	No	Irritant:	No

Other:
This product is a recombinant protein; It is the responsibility of the end user to seek local biosafety approval for the storage and handling of the material in their workplace.

Handling:

CAUTION - This preparation is not for administration to humans or animals in the human food chain. As with all materials of biological origin, this preparation should be regarded as potentially hazardous to health. It should be used and discarded according to your own laboratory's safety procedures. Such safety procedures should include the wearing of protective gloves and avoiding the generation of aerosols.

Toxicological properties	
Effects of inhalation:	Not established, avoid inhalation
Effects of ingestion:	Not established, avoid ingestion
Effects of skin absorption:	Not established, avoid contact with skin
Suggested First Aid	
Inhalation	Seek medical advice
Ingestion	Seek medical advice
Contact with eyes	Wash with copious amounts of water. Seek medical advice.
Contact with skin	Wash thoroughly with water.

Action on Spillage and Method of Disposal

Spillage of vial contents should be taken up with absorbent material wetted with disinfectant. Rinse area with disinfectant followed by water.

Absorbent materials used to treat spillage should be treated as biologically hazardous waste.