

Recombinant COVID-19 N protein (nucleocapsid phosphoprotein), Flag-tagged

Cat. No. N-128V Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant COVID-19 N protein (nucleocapsid phosphoprotein) was fused to Flag(DYKDDDDK) tag and expressed in Human cells.

Species

Sars-CoV-2

Source

Human Cells

Description

Coronaviruses are enveloped viruses with a positive-sense RNA genome and with a nucleocapsid of helical symmetry. Coronavirus nucleoproteins localize to the cytoplasm and the nucleolus, a subnuclear structure, in both virus-infected primary cells and in cells transfected with plasmids that express N protein. Coronavirus N protein is required for coronavirus RNA synthesis, and has RNA chaperone activity that may be involved in template switch. Nucleocapsid protein is a most abundant protein of coronavirus. During virion assembly, N protein binds to viral RNA and leads to formation of the helical nucleocapsid. Nucleocapsid protein is a highly immunogenic phosphoprotein also implicated in viral genome replication and in modulating cell signaling pathways. Because of the conservation of N protein sequence and its strong immunogenicity, the N protein of coronavirus is chosen as a diagnostic tool.

Form

Purified protein formulated in a sterile solution of PBS buffer, pH7.2, without any preservatives.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	49.4 kDa
Purity	>90% by SDS-PAGE gel and Coomassie Blue staining.
Applications	Antigens, Western, ELISA and other in vitro binding or in vivo functional assays, and protein-protein interaction studies; For research & development use only!

GENE INFORMATION

Gene Name	N
Official Symbol	N
Synonyms	GU280_gp10
Gene ID	43740575
Protein Refseq	YP_009724397.2

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