

Recombinant SARS Coronavirus Nucleoprotein, His-tagged

Cat. No. N-130V Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant SARS Coronavirus Nucleoprotein (2-422aa), fused to His-tag at N-terminus, was expressed in mammalian HEK293 cells and purified by immobilised metal affinity and ion exchange chromatography.

Species SARS-CoV

Source HEK293

ProteinLength 421

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 Liquid. 50mM HEPES, pH8.0, 280mM NaCl.

 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

Applications	Vaccine research and immunoassay development.
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Storage	Store at -80 centigrade, Avoid freeze/thaw cycle.
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Concentration	1.30 mg/ml
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Shipping	Dry Ice.
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GENE INFORMATION

Synonyms	GU280_gp10
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SDS-PAGE of N-130V	Coomassie-stained SDS-PAGE showing purified SARS-CoV nucleoprotein.
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