ATAGENIX LABORATORIES

Catalog Number:ATYP10374COV

Recombinant SARS-CoV-2 (2019-nCoV) Nucleocapsid protein, His Tag (B.1.1.529/Omicron)

Product Details

Summary

Product name	Recombinant SARS-CoV-2 (2019-nCoV) Nucleocapsid protein, His Tag (B.1.1.529/Omicron)
Catalog#	ATYP10374COV
description	A DNA sequence encoding the SARS-CoV-2 Nucleocapsid (YP_009724397.2, with mutations P13L, ERS31-33 deletion, R203K, G204R) (Met1-Ala419) was expressed with a polyhistidine tag at the N-terminus. The mutations were identified in the SARS-CoV-2 variant (known as variant B.1.1.529) which emerged in the South Africa.
Expression system	E.coli
Accession #	YP_009724397.2
Purity	>90% as determined by SDS-PAGE
Endotoxin level	Please contact with the lab for this information
Formulation	Supplied as solution form in PBS, pH7.5 or lyophilized from PBS, pH7.5
Shipping	In general, proteins are shipped out with blue ice unless customers require otherwise
Stability &Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 °C for one week . Store at -20 to -80 °C for twelve months from the date of receipt.
Reconstitution	Please refer to the instraction in the hard copy of COA.
Application	Immunogen

Background

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. The coronavirus N protein is required for coronavirus RNA synthesis and has RNA chaperone activity that may be involved in template switch. Nucleocapsid protein is the most abundant protein of coronavirus. During virion assembly, N protein binds to viral RNA and leads to the formation of the helical

Catalog Number:ATYP10374COV

Recombinant SARS-CoV-2 (2019-nCoV) Nucleocapsid protein, His Tag (B.1.1.529/Omicron)

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 the N protein sequence and its strong immunogenicity, the N protein of coronavirus is chosen as a diagnostic tool.

Product performance

Form	liquid
MW	46.31 kDa