Datasheet for ABIN7072155

SARS-CoV-2 Nucleocapsid Protein (SARS-CoV-2 N) (BA.2 - Omicron) (His tag)

Go to Product page

Overview

Quantity:	100 µg
Target:	SARS-CoV-2 Nucleocapsid (SARS-CoV-2 N)
Protein Characteristics:	BA.2 - Omicron
Origin:	SARS Coronavirus-2 (SARS-CoV-2), SARS CoV-2 Omicron
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SARS-CoV-2 Nucleocapsid protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	SARS-CoV-2 Nucleocapsid protein, His Tag (BA.2/Omicron)
Characteristics:	SARS-CoV-2 Nucleocapsid protein, His Tag (BA.2/Omicron) is expressed from human 293 cells (HEK293). It contains AA Met 1 - Ala 419 (P13L, ERS31-33del, R203K, G204R, S413R). The nucleocapsid mutations are identified on the SARS-CoV-2 Omicron variant (Pango lineage: BA.2; GISAID clade: GRA; Nextstrain clade: 21L). This protein carries a polyhistidine tag at the C-terminus.
Sterility:	0.22 µm filtered

Target Details

Target:	SARS-CoV-2 Nucleocapsid (SARS-CoV-2 N)
Alternative Name:	SARS-CoV-2 N protein (SARS-CoV-2 N Products)

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Target Details

Target Type:	Viral Protein
Background:	Nucleocapsid (N) protein is the most abundant protein found in coronavirus. CoV N protein is a highly immunogenic phosphoprotein important for viral genome replication and modulation of cell signaling pathways. It was first identified by a research team while they were screening for ADP-ribosylated proteins during coronavirus (CoV) infection (Grunewald M. E., et al. 2017, Virology; 517: 62-68). The array of diverse functional activities accommodated in N protein makes it more than a structural protein but also an interesting target in the development of antiviral therapeutics. Because of the conservation of N protein sequence and its strong immunogenicity, N protein of coronavirus is chosen as a diagnostic tool.
Molecular Weight:	47.1 kDa

Application Details

Comment:	The protein has a calculated MW of 47.1 kDa.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C/-80 °C
Storage Comment:	For long term storage, the product should be stored at lyophilized state at -20°C or lower.This product is stable after storage at: 4-8°C for 12 months in lyophilized state, -70°C for 3 months under sterile conditions after reconstitution.
Expiry Date:	12 monts

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