

Datasheet for ABIN6952638

**SARS-CoV-2 NSP1 Protein (His tag)**[Go to Product page](#)**1** Image

## Overview

Quantity:	100 µg
Target:	SARS-CoV-2 NSP1 (NSP1)
Origin:	SARS Coronavirus-2 (SARS-CoV-2)
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SARS-CoV-2 NSP1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

## Product Details

Purpose:	SARS-CoV-2 (COVID-19) NSP1 Protein, His Tag
Sequence:	AA 1-180
Characteristics:	SARS-CoV-2 NSP1, His Tag is expressed from E.coli cells. It contains AA Met 1 - Gly 180 (Accession # YP_009725297.1). Predicted N-terminus: Met This protein carries a polyhistidine tag at the C-terminus.
Purity:	>90 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

## Target Details

Target:	SARS-CoV-2 NSP1 (NSP1)
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## Target Details

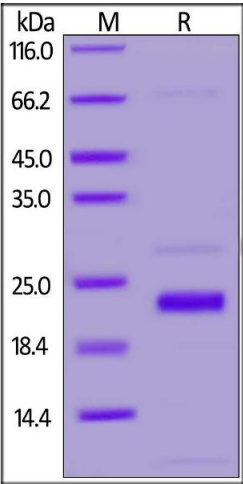
Alternative Name:	SARS-CoV-2 Host Translation Inhibitor Nsp1 ( <a href="#">NSP1 Products</a> )
Target Type:	Viral Protein
Background:	The viral nonstructural protein 1 (nsP1) is the only membrane-associated protein that anchors the replication complex to the cellular membranes. NSP1 inhibits host translation by interacting with the 40S ribosomal subunit. The nsp1-40S ribosome complex further induces an endonucleolytic cleavage near the 5'UTR of host mRNAs, targeting them for degradation. Viral mRNAs are not susceptible to nsp1-mediated endonucleolytic RNA cleavage thanks to the presence of a 5'-end leader sequence and are therefore protected from degradation. By suppressing host gene expression, nsp1 facilitates efficient viral gene expression in infected cells and evasion from host immune response.
Molecular Weight:	21.7 kDa
NCBI Accession:	<a href="#">YP_009725297</a>

## Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

## Handling

Format:	Lyophilized
Buffer:	PBS, Arginine, pH 7.4
Storage:	4 °C,-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 years under sterile conditions after reconstitution.



SDS-PAGE

**Image 1.** SARS-CoV-2 NSP1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90 % .