ATAGENIX LABORATORIES

Recombinant SARS-CoV-2(2019-nCoV) NSP3

Catalog Number: ATEP02442COV

Overview

Description	Recombinant SARS-CoV-2 NSP3 is produced by E.coli expression system and the target gene encoding Glu1564-Ile1877 is expressed with a 6His tag at the N-terminus.
Expression system	E.coli
Species	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)
Alternative names	nsp3,PL-PRO,Papain-like proteinase,Peptidase C16 domain
Accession #	QHD43415.1

Specifications

Predicted Molecular Mass	37.53kDa
Actual Molecular Mass	37.53kDa,reducing conditions
Purity	>90% as determined by SDS-PAGE quantitative densitometry by Coomassie Blue Staining.
Endotoxin level	Please contact with the lab for this information
Bioactivity	Testing in progress
Formulation	Supplied as lyophilized from PBS, pH7.5

Preparation and storage

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	Reconstitute in ddH_2O to a concentration of 0.1-1.0 mg/mL. Do not vortex.

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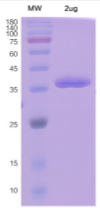
Background

The coronaviral proteases, papain-like protease (PLpro) and 3C-like protease (3CLpro), are attractive antivir al drug targets because they are essential for coronaviral replication. PLpro has the additional function of s tripping ubiquitin and ISG15 from host-cell proteins to aid coronaviruses in their evasion of the host innate immune responses. Targeting PLpro with antiviral drugs may have an advantage in not only inhibiting viral replication but also inhibiting the dysregulation of signaling cascades in infected cells that may lead to cell death in surrounding, uninfected cells.

SDS-PAGE image



SDS-PAGE Image

Note

For research use only .Not for use in clinical diagnostic procedures.