

Product Name: Recombinant SARS-CoV-2 NSP1 (C-6His)
Catalog #: PEV2234

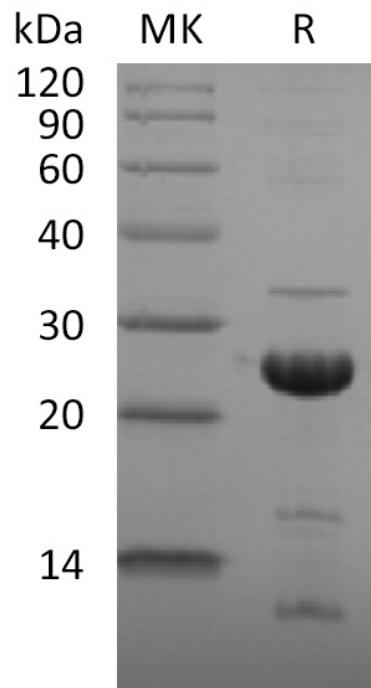


Summary

Name	NSP1
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	Please contact with the lab for this information
Construction	Recombinant 2019-nCoV NSP1 is produced by our E.coli expression system and the target gene encoding Met1-Gly180 is expressed with a 6His tag at the C-terminus.
Accession #	YP_009725297.1
Host	E.coli
Species	SARS-CoV-2
Predicted Molecular Mass	22.7 KDa
Formulation	Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 150mM NaCl, 10% Glycerol, pH 8.5.
Shipping	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Reconstitution	

SDS-PAGE image

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Alternative Names

SARS-CoV 2 nsp1; SARS-CoV 2 Leader protein

Background

The Severe Acute Respiratory Syndrome (SARS) Coronavirus (CoV) is an enveloped, positive-stranded RNA viruses that can cause a severe respiratory disease. Its genome consists of a ~30 kb linear, non-segmented, capped, polycistronic, polyadenylated RNA molecule, the first two-third of which is directly translated into two large polyproteins. These two polypeptides are processed into 16 non-structural proteins (nsps), forming the replicase complex, which is active in the cytoplasm in close association with cellular membranes. Nsp1 was proved to be able to suppress host gene expression by promoting host mRNA degradation and was involved in cellular chemokine deregulation. This virus evades the host innate immune response in part through the expression of its non-structural protein (nsp) 1, which inhibits both host gene expression and virus- and interferon (IFN)-dependent signaling. Thus, nsp1 is a promising target for drugs, as inhibition of nsp1 would make SARS-CoV more susceptible to the host antiviral defenses.

Note

For Research Use Only , Not for Diagnostic Use.