

Synonym

NSP7,nsp7,Non-structural protein 7

Source

SARS-CoV-2 NSP7, His Tag(NS7-C51H6) is expressed from E.coli cells. It contains AA Ser 1 - Gln 83 (Accession # [YP_009725303.1](#)).

Predicted N-terminus: Met

Molecular Characterization

NSP7(Ser 1 - Gln 83) YP_009725303.1	Poly-his
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This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 11.3 kDa. The protein migrates as 12 kDa under reducing (R) condition (SDS-PAGE) .

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Supplied as 0.2 µm filtered solution in PBS, pH7.4 with glycerol as protectant.

Contact us for customized product form or formulation.

Shipping

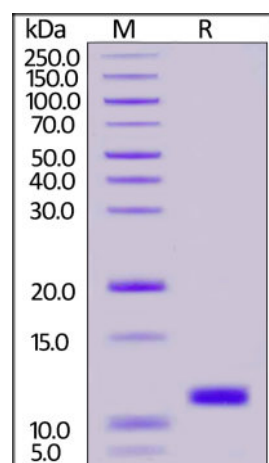
This product is supplied and shipped as sterile liquid solution with dry ice, please inquire the shipping cost.

Storage

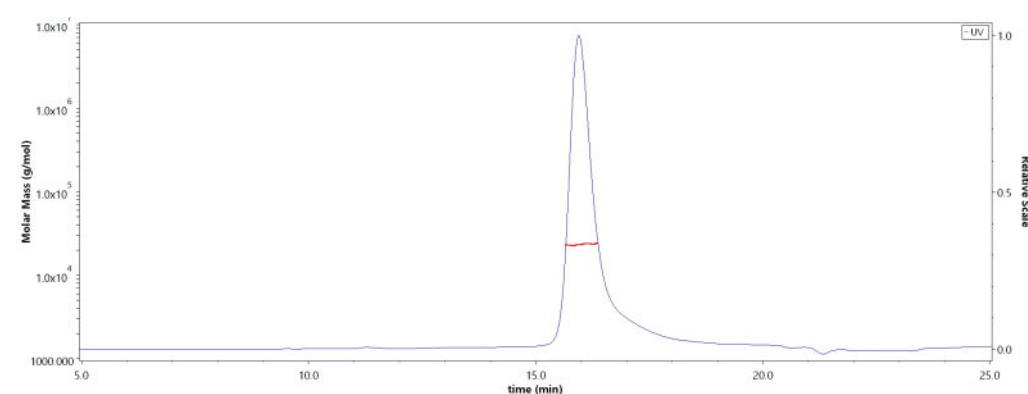
Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

SDS-PAGE

SARS-CoV-2 NSP7, 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 95%.

SEC-MALS

The purity of SARS-CoV-2 NSP7, His Tag (Cat. No. NS7-C51H6) is more than 90% and the molecular weight of this protein is around 20-25 kDa verified by SEC-MALS.

[Report](#)

Background

During the formation of the coronaviral replication/transcription complex, essential steps include processing of the conserved polyprotein nsp7-10 region by the main protease Mpro and subsequent complex formation of the released nsps. Upon infecting host cells, coronaviruses assemble a multi-subunit RNA-synthesis complex of viral non-structural proteins (nsp) responsible for the replication and transcription of the viral genome. non-structural proteins 7 (NSP7) forms a hexadecamer with nsp8 (8 subunits of each) that may participate in viral replication by acting as a primase. Alternatively, may synthesize substantially longer products than oligonucleotide primers.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.

