SARS-CoV-2 (COVID-19) NSP7&NSP8 Protein, His Tag

Catalog # NS8-C5125

Synonym

NSP7 & NSP8,nsp7 & nsp8

Source

SARS-CoV-2 NSP7&NSP8, His Tag(NS8-C5125) is expressed from E.coli cells. It contains AA Ser 1 - Gln 83 (NSP7) & Ala 1 - Gln 198 (NSP8) (Accession # YP_009725303.1 (NSP7) & YP_009725304.1 (NSP8)).
Predicted N-terminus: Met

Molecular Characterization

This protein carries a polyhistidine tag.

The protein has a calculated MW of 32.1 kDa. The protein migrates as 28-32 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.

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.

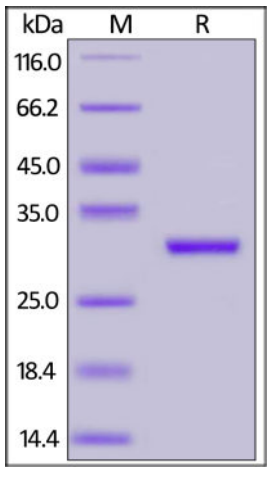
Storage

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&NSP8, 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%.

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.