Recombinant COVID-19 NSP7 protein, His-tagged (MALS verified)

Cat. No. NSP7-198V **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant COVID-19 NSP7 protein (Ser1-Gln83) was fused to his-tag at the C-terminus and expressed in E.coli.
Species	Sars-CoV-2
Source	E.coli
ProteinLength	Ser1-Gln83
Description	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 nsp's. 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.
Predicted N Terminal	Met
Form	Delivered as bulk protein in a 0.2 μm filtered solution of PBS, pH7.4 with glycerol as protectant.

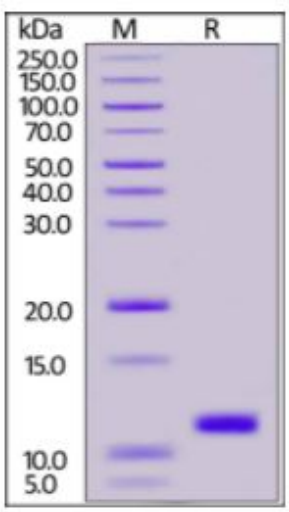
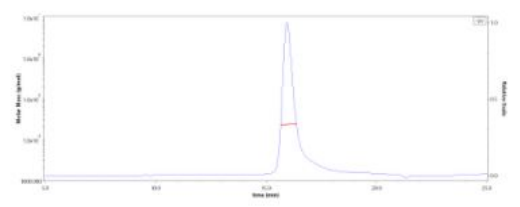
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Molecular Mass	The protein has a calculated MW of 11.3 kDa. The protein migrates as 12 kDa under reducing (R) condition (SDS-PAGE).
Endotoxin	Less than 1.0 EU per μg by the LAL method.
Purity	>95% as determined by SDS-PAGE. >90% as determined by SEC-MALS.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Shipping	Powder,RT

GENE INFORMATION

Gene Name	orf1ab
Official Symbol	orf1ab
Synonyms	pp1ab
Gene ID	1489680
Protein Refseq	NP_828865.1
UniProt ID	P0C6X7

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SDS-PAGE of NSP7-198V	 COVID-19 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 of NSP7-198V	 The purity of COVID-19 NSP7, His Tag was more than 90% and around 20-25 kDa verified by SEC-MALS.

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