

Recombinant COVID-19 NSP8 protein, His-tagged

Cat. No. NSP8-198V **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant COVID-19 NSP8 protein (Ala1-Gln198) was fused to his-tag at the N-terminus and expressed in E.coli.
Species	Sars-CoV-2
Source	E.coli
ProteinLength	Ala1-Gln198
Description	NSP8, forms a hexadecamer with nsp7 (8 subunits of each) that may participate in viral replication by acting as a primase. Alternatively, may synthesize substantially longer products than oligonucleotide primers. To ultimately combat the emerging COVID-19 pandemic, it is desired to develop an effective and safe vaccine against this highly contagious disease caused by the SARS-CoV-2 coronavirus. By investigating the entire proteome of COVID-19, six proteins, including the S protein and five non-structural proteins (nsp3, 3CL-pro, and nsp8-10) were predicted to be adhesins, which are crucial to the viral adhering and host invasion. The S, nsp3, and nsp8 proteins were also predicted by Vaxign-ML to induce high protective antigenicity.
Predicted N Terminal	Met
Form	Delivered as bulk protein in a 0.2 µm filtered solution of 20 mM Tris, 250 mM NaCl, pH8.5 with glycerol as protectant.

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Molecular Mass	The protein has a calculated MW of 23.9 kDa. The protein migrates as 22-25 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
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.
Shipping	This product is supplied as sterile liquid solution and shipped frozen with dry ice, please inquire the shipping cost.

GENE INFORMATION

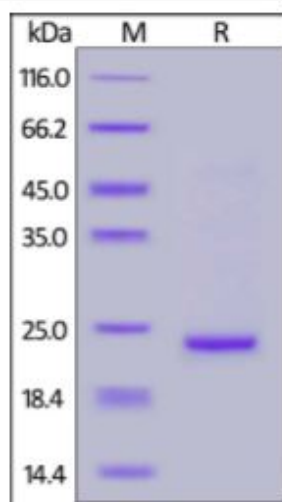
Gene Name	ORF1ab
Official Symbol	ORF1ab
Synonyms	ORF1a polyprotein
Gene ID	43740578
Protein Refseq	YP_009725304.1
UniProt ID	P0DTD1

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**SDS-PAGE of NSP8-
198V**



COVID-19 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%.