Recombinant 2019-nCoV NSP7 Protein, His-tagged

Cat. No. NSP7-07C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length 2019-nCoV NSP7 was expressed in E. coli using a C-terminal His tag.
Species	Sars-Cov-2
Source	E.coli
Description	Novel coronavirus SARS-CoV-2 has caused the pandemic of the respiratory diseases (COVID-19) around the world in 2020. Coronavirus RNA genome encodes a complex replication machinery consisting of 16 viral non-structural proteins (NSPs). NSP7 and NSP8 stabilize regions of NSP12 (RNA-dependent RNA polymerase; RdRp) involved in RNA binding and are essential for a highly active NSP12 polymerase complex. NSP7 has been suggested to confer RNA-binding properties to the trimeric polymerase complex. NSP8 has been shown to act as an oligo(U)-templated polyadenylyltransferase and a robust (mono/oligo) adenylate transferase. The NSP7/NSP8/NSP12 polymerase complex associates with NSP14 which is required to safeguard coronavirus replication fidelity
Molecular Mass	9 kDa
Purity	> 90%
Applications	ELISA
Stability	One year at -70 centigrade from date of shipment.

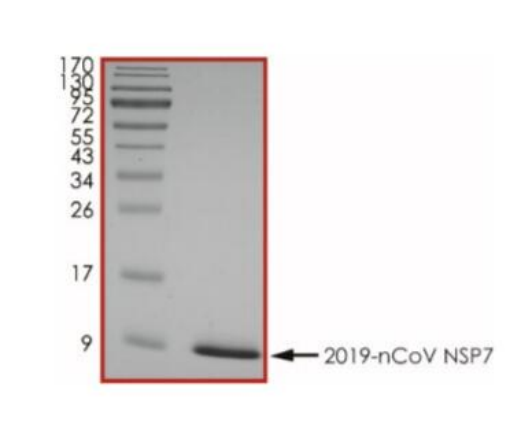
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	2 μg/μL
Storage Buffer	Recombinant protein stored in 20 mM Tris, pH7.5, 300mM NaCl, 200mM imidazole, 1 mM DTT, 10% glycerol.
Shipping	Dry ice

GENE INFORMATION

Gene Name	ORF1ab ORF1a polyprotein;ORF1ab polyprotein [Severe acute respiratory syndrome coronavirus 2]
Official Symbol	ORF1ab
Synonyms	ORF1ab; ORF1a polyprotein;ORF1ab polyprotein; ORF1a polyprotein;ORF1ab polyprotein; leader protein; nsp2; nsp3; nsp4; 3C-like proteinase; nsp6; nsp7; nsp8; nsp9; nsp10; RNA-dependent RNA polymerase; helicase; 3'-to-5' exonuclease; endoRNAse; 2'-O-ribose methyltransferase; leader protein; nsp2; nsp3; nsp4; 3C-like proteinase; nsp6; nsp7; nsp8; nsp9; nsp10; nsp11; pp1ab; translated by -1 ribosomal frameshift; pp1a
Gene ID	43740578
Protein Refseq	YP_009725303

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Purity	 The purity of 2019-nCoV NSP7 was determined to be >90% by densitometry. Calculated MW 9 kDa.

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