

Recombinant SARS-CoV-2 NSP8

01/21

CATALOG NO:	P1648-50 50 µg
ALTERNATE NAMES:	SARS-CoV-2 NSP8; COVID-19 NSP8; 2019-nCoV NSP8; Non-Structural Protein 8; nsp8
MOL. WT.	24 kDa
ACCESSION NO:	YP_009725304.1
PURITY:	≥ 90% by SDS-PAGE
SOURCE:	<i>E.coli</i>
TAG:	His tag
AMINO ACID SEQUENCE:	The target is expressed with the sequence Ala1-Gln198 of SARS-CoV-2 NSP8 with a His tag at the N-terminus
FORM:	Lyophilized protein
FORMULATION:	Lyophilized from PBS, pH 7.5
RECONSTITUTION:	Reconstitute in sterile water to a concentration of 1 mg/ml.
STORAGE CONDITIONS:	Store at -20 °C or -80 °C. After reconstitution, divide into small aliquots and store at -20 °C or -80 °C. Avoid repeated freeze-thaw cycles.
DESCRIPTION:	The replication of Coronavirus is operated by multiple non-structural proteins (nsps). The viral genomic RNA is translated from two open reading frames (ORFs), ORF1a and ORF1b. The encoded replicase polyproteins, pp1a and pp1ab, are further processed to produce nsps. The viral protease, 3CLpro cleaves to generate the NSP8 protein. NSP8 is a component of the coronavirus replicase polyprotein that forms a replication complex. It forms a dimer with NSP7 and subsequently assembles into a large hexadecameric structure, which participates in viral replication by acting as a primase. NSP8 was shown to have RNA-dependent RNA polymerase (RdRp) activity that is necessary for producing primers utilized by NSP12 which is normally considered to be the RdRp for SARS-CoV-2.

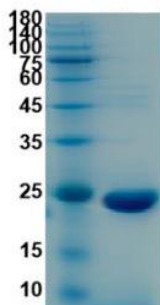


Fig A. 2 µg of Recombinant SARS-CoV-2 NSP8 was loaded on SDS-PAGE and visualized by Coomassie blue stain.

RELATED PRODUCTS:

Recombinant SARS-CoV-2 NSP7 (Cat. No. P1647)
 Human CellExp™ Coronavirus Spike Protein (SARS-CoV-2; S1), Recombinant (P1524)
 Human CellExp™ SARS-CoV-2 Spike Protein (RBD), Recombinant (P1530)
 Human CellExp™ SARS-CoV-2 Spike RBD (N501Y), Recombinant (Cat. No. P1644)
 Recombinant COVID-19 3C-like Proteinase (Cat. No. P1606)

FOR RESEARCH USE ONLY! Not to be used on humans.