

Recombinant SARS-CoV-2 NSP7 (C-His)

Catalog No: BP214

Description Recombinant SARS-CoV-2 NSP7 is produced by our E.coli expression system and the target gene

encoding Ser1-Gln83 is expressed with a 8His tag at the C-terminus.

Expression System E.coli

Alternative name Non-Structural Protein 7; nsp7

11.5kDa

Accession No. YP_009725303.1

Predicted

Molecular Weight

Apparent Molecular Weight

<14.4kDa, reducing conditions.

Quality Control Purity: greater than 95% as determined by reducing SDS-PAGE.

Activity: validated through enzymatic assay of NSP7-NSP8/NSP12

Formulation Supplied as a 0.2 um filtered solution of 20mM Tris, 150mM NaCl, 10%Glycerol, 4mM MgCl₂, pH8.0

Shipping The product is shipped on dry ice pack.

Upon receipt, store it immediately at the temperature listed below.

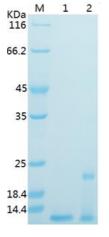
Storage Store at < -20°C, stable for 6 months after receipt.

Please minimize freeze-thaw cycles.

Background The replication of coronavirus is operated by a set of non-structural proteins (nsps) encoded by open

reading frame 1a (ORF1a) and ORF1ab in its genome. NSP7 is a component of the coronavirus replicase polyprotein that forms a replication complex. NSP7 is conserved among all coronavirus. It can form a dimer with NSP8 and subsequently assembles into a large hexadecameric structure, which participates in viral replication by acting as a primase. The NSP12-NSP7-NSP8 subcomplex is found to be the minimal core component for the synthesis of coronavirus RNA. NSP7 is of interest for its potential roles in the transcription and replication of the positive-stranded viral RNA genome.

SDS-PAGE



M: Marker

1: Reducing sample

2: Non-reducing sample