

Recombinant SARS-CoV-2 NSP8 (C-His)

Catalog No: BP215

Description	Recombinant SARS-CoV-2 NSP8 is produced by our E.coli expression system and the target gene encoding Ala1-Gln198 is expressed with a 8His tag at the C-terminus.
Expression System	E.coli
Alternative name	Non-Structural Protein 8; nsp8
Accession No.	YP_009725304.1
Predicted Molecular Weight	24.1kDa
Apparent Molecular Weight	25-35kDa, 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 MgCl ₂ , 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. NSP8 is a component of the coronavirus replicase polyprotein that forms a replication complex. It can form 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 accepted to be the RdRp for SARS-CoV.

SDS-PAGE

