Recombinant SARS-CoV-2 NSP8 Protein (His Tag)

Catalog Number: PKSR030470

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description			
Species			SARS-CoV-2
Source			E.coli-derived SARS-CoV-2 NSP8 protein Ala1-Gln198, with an C-terminal His
Calculated MW			25 kDa
Observed MW			25 kDa
Accession			YP_009725304.1
Bio-activity			Not validated for activity
Properties			
Purity			> 85 % as determined by reducing SDS-PAGE.
Concentration			Subject to label value.
Endotoxin			< 1.0 EU per µg of the protein as determined by the LAL method.
Storage			Store at $<$ -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping			This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel
			packs. Upon receipt, store it immediately at $< -20^{\circ}$ C.
Formulation			Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 150mM NaCl, 10% Glycerol,
			pH 8.5.
Data			
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Background

Cleavage by the viral main protease, 3CLpro results in generating the nsp8 protein, The nsp8 protein has been shown to associate with several other nsps and to colocalize with these nsps in cytoplasmic complexes that are important for viral RNA synthesis. It 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. Nsp8 was shown to have RNA-dependent RNA polymerase (RdRp) activity that could be involved in producing primers utilized by nsp12 which is normally accepted to be the RdRp for SARS-CoV.