

Recombinant SARS-CoV-2 NSP12 protein

Catalog Number:PKSV030327



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

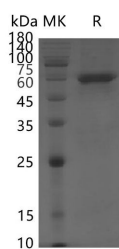
Description

Synonyms	SARS-CoV 2 nsp12;RNA-directed RNA polymerase;RdRp
Species	SARS-CoV-2
Expression Host	E.coli
Sequence	Asp4891-Val5212
Accession	QHD43415.1
Calculated Molecular Weight	64.0 kDa
Observed molecular weight	60 kDa
Tag	N-Gst

Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Supplied as solution form in PBS, pH7.5 or lyophilized from PBS, pH7.5 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 90 % as determined by reducing SDS-PAGE.

Background

The RdRp of SARS-CoV-2 is composed of a catalytic subunit known as nsp12 as well as two accessory subunits, nsp8 and nsp7. The structure of this RdRp has recently been reported; it is highly similar to the RdRp of SARS-CoV, a zoonotic coronavirus that spread into the human population in 2002. The nsp12 subunit contains an N-terminal nidovirus RdRp-associated nucleotidyltransferase (NiRAN) domain, an interface domain and a C-terminal RdRp domain. The RdRp domain resembles a right hand, comprising the fingers, palm and thumb subdomains that are found in all single-subunit polymerases. Subunits nsp7 and nsp8 bind to the thumb, and an additional copy of nsp8 binds to the fingers domain. Structural information is also available for nsp8–nsp7 complexes.

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