Data Sheet (Cat.No.TMPY-06009)

TargetMol

SARS-CoV-2 NSP7 Protein

General Information

Protein Construction:	A DNA sequence encoding the SARS-CoV-2 (2019-nCoV) NSP7 Protein (YP_009725303.1) (Ser1-Gln83) was expressed with two amino acids (GP) at the N-terminus. Predicted N terminal: Gly
Species:	SARS-CoV-2
Expression Host:	E. coli
Accession:	YP_009725303.1
Molecular Weight:	9.4 kDa (predicted)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90 % as determined by SDS-PAGE.
Endotoxin:	Please contact us for more information.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM Tris, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

NSP7 is conserved within the coronaviridae. NSP7 is a component of the coronavirus replicase polyprotein to comprise a repilication complex. NSP7 has been shown to interact with NSP10 and NSP1 which indicate that NSP7 has a founction in coronavirus-specific RNA replication mechanisms.

Reference

Wolfgang Peti, et al.Structural Genomics of the Severe Acute Respiratory Syndrome Coronavirus: Nuclear Magnetic Resonance Structure of the Protein nsP7.
JOURNAL OF VIROLOGY.2005Yibei Xiao,et al.Nonstructural proteins 7 and 8 of feline coronavirus form a 2:1 heterotrimer that exhibits primer-independent RNA polymerase activity. J Virol. 2012

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