

SARS-CoV-2 Guanine-N7 methyltransferase Protein (His)

General Information

Synonyms:	SARS-CoV 2 nsp14;Guanine-N7 methyltransferase;SARS-CoV 2 ExoN
Protein Construction:	Ala1-Gln527
Species:	SARS-CoV-2
Expression Host:	E. coli
Accession:	YP_009725309.1
Molecular Weight:	60 KDa (reducing condition)
AA Sequence:	Ala1-Gln527

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Formulation:	Supplied as a 0.2 μ m filtered solution of 20 mM PB, 100 mM NaCl, 2 mM DTT, 20% Glycerol, 0.1% TritonX-100, pH 6.0.

Preparation and Storage

Stability & Storage:

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:

Proteins are shipped with blue ice.

Protein Background

The nonstructural protein (nsp) 14 of SARS-CoV 2 was identified as a cap (guanine-N7)-methyltransferase (N7-MTase). Nsp14 of coronaviruses two different activities: an exoribonuclease activity acting on both ssRNA and dsRNA in a 3' to 5' direction and a N7-guanine methyltransferase activity. It may be involved in the proof-reading ability during the viral RNA replication and transcription. GTP, dGTP as well as cap analogs GpppG, GpppA and m7GpppG could be methylated by nsp14.

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