

COVID 19 NSP14 Methyltransferase Coronavirus Active Protein | COVID-19 active protein

2019-nCoV NSP14 Methyltransferase, Active

CATALOG #
AAA73169

HOST
E Coli

PRODUCT SYNONYMS

COVID 19 NSP14 Methyltransferase Coronavirus; 2019-nCoV NSP14 Methyltransferase; Active; 2019 Novel Coronavirus; Coronavirus; CoV; COVID-19 virus; HCoV-2; Human Coronavirus 2019; SARS2; SARS-CoV-2; Severe acute respiratory syndrome coronavirus 2; NSP14 Methyltransferase; COVID-19 active protein

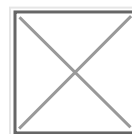
PRODUCT SPECIFICATIONS

Host	E Coli
Form/Format	Recombinant protein stored in 50mM sodium phosphate, pH7.0, 300mM NaCl, 150mM imidazole, 0.25mM DTT, 25% glycerol
Species	SARS-CoV-2
Tag	HIS
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at the recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



Purity Data
Sample Purity Data.



Specific Activity
Sample Activity Plot.

ADDITIONAL INFORMATION

Related Product Information for COVID-19 active protein	Recombinant SARS-CoV-2 (COVID-19) NSP14 Methyltransferase (5925-6452) was expressed in E Coli using a C-terminal His-tag. Overview: Corona viruses codes for a bifunctional non-structural protein 14 (NSP14) that is important for viral replication and transcription. NSP14 contains an N-terminal exo-ribonuclease (ExoN) domain for proof reading during viral replication and a C-terminal N-7 methyltransferase (N7-MTase) domain for mRNA capping. NSP14 associates with several viral proteins (1). It can bind to NSP10 and the resulting complex exhibits enhanced ExoN activity in vitro (2). It can also bind to the polymerase complex (NSP12/NSP8/NSP7) forming a complex that retains all associated enzymatic activities (3).
Product Categories/Family for COVID-19 active protein	Proteins; COVID-19 Proteins
References	1. Ma, Y. et al: Structural basis and functional analysis of the SARS Corona virus nsp14-nsp10 complex. PNAS, USA. (2015), 112(30):9436-9441. 2. Bouvet, M. et al: RNA 3'-end mismatch excision by the severe acute respiratory syndrome Corona virus nonstructural protein nsp10/nsp14 exoribonuclease complex. Proc Natl Acad Sci USA. (2012), 109:9372-9377. 3. Subissi, L. et al: One severe acute respiratory syndrome Corona virus protein complex integrates processive RNA polymerase and exonuclease activities. Proc Natl Acad Sci USA. (2014), 111:E3900-E3909.

NCBI AND UNIPROT INFORMATION

Molecular Weight	60kDa
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-covid-19-active-protein/covid-19-nsp14-methyltransferase-coronavirus/73169>