

Recombinant 2019-nCoV NSP14 Methyltransferase Protein, His-tagged

Cat. No. NSP14-06C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant SARS-CoV-2 (COVID-19) NSP14 Methyltransferase (5925-6452) was expressed in E. coli using a C-terminal His-tag.
Species	Sars-Cov-2
Source	E.coli
ProteinLength	5925-6452
Description	Coronaviruses codes for a bifunctional non-structural protein 14 (NSP14) that is important for viral replication and transcription. NSP14 contains an N-terminal exoribonuclease (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. It can bind to NSP10 and the resulting complex exhibits enhanced ExoN activity in vitro. It can also bind to the polymerase complex (NSP12/NSP8/NSP7) forming a complex that retains all associated enzymatic activities.
Molecular Mass	60 kDa
Purity	> 80%
Applications	ELISA

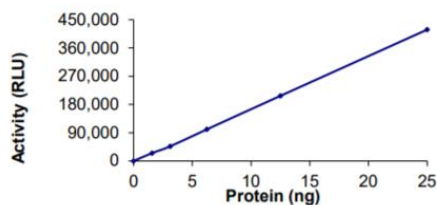
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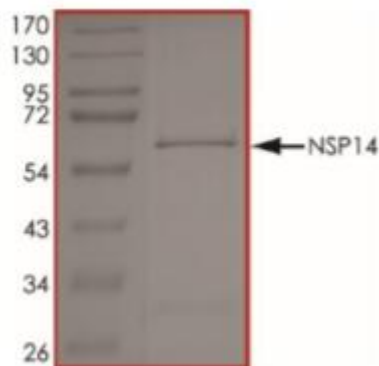
Stability	One year at -70 centigrade from date of shipment.
Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.05 µg/µL
Storage Buffer	Recombinant protein stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.25mM DTT, 25% glycerol.
Shipping	Dry ice
GENE INFORMATION	
Gene Name	ORF1ab ORF1a polyprotein;ORF1ab polyprotein [Severe acute respiratory syndrome coronavirus 2]
Official Symbol	ORF1ab
Synonyms	ORF1ab; ORF1a polyprotein;ORF1ab polyprotein; ORF1a polyprotein;ORF1ab polyprotein; leader protein; nsp2; nsp3; nsp4; 3C-like proteinase; nsp6; nsp7; nsp8; nsp9; nsp10; RNA-dependent RNA polymerase; helicase; 3'-to-5' exonuclease; endoRNase; 2'-O-ribose methyltransferase; leader protein; nsp2; nsp3; nsp4; 3C-like proteinase; nsp6; nsp7; nsp8; nsp9; nsp10; nsp11; pp1ab; translated by -1 ribosomal frameshift; pp1a
Gene ID	43740578
Protein Refseq	YP_009724389

Activity



The specific activity of 2019-nCoV NSP14 Methyltransferase was determined to be 14.1 nmol/min/mg as per activity assay protocol.

Purity



The purity of 2019-nCoV NSP14 was determined to be >80% by densitometry.
Calculated MW 60 kDa.