

COVID 19 NSP10/NSP16 Methyltransferase Coronavirus Active Protein | COVID-19 active protein

2019-nCoV NSP10/NSP16 Methyltransferase, Active

CATALOG # AAA73168	HOST E Coli
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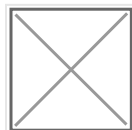
PRODUCT SYNONYMS

COVID 19 NSP10/NSP16 Methyltransferase Coronavirus; 2019-nCoV NSP10/NSP16 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; NSP10/NSP16 Methyltransferase; COVID-19 active protein

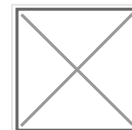
PRODUCT SPECIFICATIONS

Host	E Coli
Form/Format	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 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 2019-nCoV NSP10/NSP16 methyltransferase includes full length NSP10 (A4254-Q4392) and NSP16 (S6799-N7096) expressed in E Coli using C-terminal His tag. Overview: Many eukaryotic viruses have evolved 2'-O-methyltransferases (2'-O-MTase) to modify their viral mRNAs and carry a cap-1 structure (m7GpppNm) at the 5' end. This 5' cap structure is important for viral mRNA stability, protein translation and viral immune escape (1). SARS-CoV possess NSP16 that has 2'-O-MTase activity. NSP16 requires NSP 10 for activation which is a conserved mechanism in corona viruses (2). Therefore, inhibitors targeting the NSP10/NSP16 2'-O-MTase are potential targets for developing anti-Corona virus drugs (3).
Product Categories/Family for COVID-19 active protein	Proteins; COVID-19 Proteins
References	1. Furuichi, Y. et al: Viral and cellular mRNA capping: past and prospects. Adv Virus Res. 2000, 55:135-184. 2. Decroly, E. et al. Corona virus nonstructural protein 16 is a cap-o binding enzyme possessing (nucleoside-2'O)-methyltransferase activity. J Virol. 2008, 82(16):8071-8084. 3. Chen, Y. et al: Biochemical and structural insights into the mechanisms of SARS Corona virus RNA ribose 2'-O-methylation by nsp16/nsp10 protein complex. PLoS Pathog. 2011, 7(10): e1002294.

NCBI AND UNIPROT INFORMATION

Molecular Weight	38kDa (NSP16); 19kDa (NSP10)
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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-nsp10-nsp16-methyltransferase-coronavirus/73168>