Active Recombinant 2019-nCoV ME Protein, His-Tagged

Cat. No. ME-270V **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the SARS-CoV-2 (2019-nCoV) Methyltransferase / ME (YP_009724389.1) (Ser6799-Asn7096) was expressed with a polyhistidine tag at the C-terminus.
Species	Sars-Cov-2
Source	E.coli
ProteinLength	Ser6799-Asn7096
Description	Coronavirus encodes the 2′-O-MTase2'O Methyltransferase that is composed of the catalytic subunit nsp16 and the stimulatory subunit nsp10 and plays an important role in virus genome replication and evasion from innate immunity during viral infection. Nonstructural protein 16 (NSP16) / viral 2'O-methyltransferase (2'O-MTase) is highly conserved. The conserved 2'O-MTase activity is important for CoV pathogenesis and NSP16 is a conserved universal target for rapid live attenuated vaccine design in an expanding Coronavirus outbreak setting, such as COVID-19. Targeting on the 2'O-methylation pathway on SARS-CoV replication and pathogenesis can be the treatment options for vaccine and anti-viral durgs development which can against SARS-CoV-2SARS-CoV, MERS-CoV or other RNA and DNA viruses.
Predicted N Terminal	Met
Form	Supplied as sterile 10mM Tris 250mM NaCl, 50% Glycerol pH 7.4.

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Bio-activity	Testing in progress
Molecular Mass	The recombinant SARS-CoV-2 (2019-nCoV) Methyltransferase / ME consists of 299 amino acids and predicts a molecular mass of 33.46 kDa.
Endotoxin	Please contact us for more information.
Purity	> 85 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C
Storage	Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
Shipping	Liquid. It is shipped out with blue ice.

GENE INFORMATION

Gene Name	ORF1ab ORF1a polyprotein;ORF1ab polyprotein [Severe acute respiratory syndrome coronavirus 2]
Official Symbol	ORF1ab
Synonyms	Methyltransferase, ME
Gene ID	43740578
Protein Refseq	YP_009724389.1

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UniProt ID	P0DTC1

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