

Recombinant COVID-19 Methyltransferase protein, his-tagged

Cat. No. ORF1ab-877V **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant COVID-19 Methyltransferase protein (Ser6799-Asn7096) was fused to his-tag at the C-terminus and expressed in E.coli.
Species	Sars-CoV-2
Source	E.coli
ProteinLength	Ser6799-Asn7096
Description	Coronavirus encodes the 2'-O-MTase 2'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 drugs development which can against COVID-19 SARS-CoV, MERS-CoV or other RNA and DNA viruses.
Predicted N Terminal	Met
Form	Lyophilized from sterile PBS, pH 7.4, 5% trehalose, 5% mannitol and 0.01% Tween80.

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Molecular Mass	The recombinant COVID-19 Methyltransferase / ME consists of 299 amino acids and predicts a molecular mass of 33.46 kDa.
Purity	> 85% as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -20 centigrade to -80 centigrade.
Storage	Store it under sterile conditions at -20 centigrade to -80 centigrade. 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 0.25 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	ORF1ab
Official Symbol	ORF1ab
Synonyms	ORF1a polyprotein
Gene ID	43740578

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Protein Refseq	YP_009724389.1
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UniProt ID	P0DTD1
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