

# Recombinant SARS-CoV-2 Methyltransferase / ME Protein (His Tag)



Catalog Number:PKSR030513

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

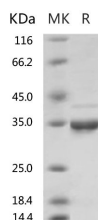
## Description

|                                    |                      |
|------------------------------------|----------------------|
| <b>Synonyms</b>                    | Methyltransferase;ME |
| <b>Species</b>                     | SARS-CoV-2           |
| <b>Expression Host</b>             | E.coli               |
| <b>Sequence</b>                    | Ser6799-Asn7096      |
| <b>Accession</b>                   | YP_009724390.1       |
| <b>Calculated Molecular Weight</b> | 33.5 kDa             |
| <b>Tag</b>                         | C-His                |

## Properties

|                       |  |
|-----------------------|--|
| <b>Purity</b>         | > 85 % as determined by reducing SDS-PAGE.   |
| <b>Endotoxin</b>      | < 1.0 EU per µg of the protein as determined by the LAL method.  |
| <b>Storage</b>        | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.          |
| <b>Shipping</b>       | This product is provided as lyophilized powder which is shipped with ice packs.  |
| <b>Formulation</b>    | Lyophilized from sterile 20 mM Tris 150 mM NaCl, pH 8.3.<br>Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual. |
| <b>Reconstitution</b> | Please refer to the printed manual for detailed information.   |

## Data



> 85 % as determined by reducing SDS-PAGE.

## Background

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 SARS-CoV-2, SARS-CoV, MERS-CoV or other RNA and DNA viruses.

## For Research Use Only

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