

## COVID 19 Guanine-N7\_meth Protein Coronavirus Recombinant Protein | COVID-19 recombinant protein

Recombinant 2019-nCoV Guanine-N7\_meth Protein (His Tag)

|                               |                       |
|-------------------------------|-----------------------|
| CATALOG #<br><b>AAA176994</b> | HOST<br><b>E Coli</b> |
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### PRODUCT SYNONYMS

COVID 19 Guanine-N7\_meth Protein Coronavirus; Recombinant 2019-nCoV Guanine-N7\_meth Protein (His Tag); 2019 Novel Coronavirus; Coronavirus; CoV; COVID-19 virus; HCoV-2; Human Coronavirus 2019; SARS2; SARS-CoV-2; Severe acute respiratory syndrome coronavirus 2; SARS-CoV 2 nsp14; SARS-CoV ExoN; Guanine-N7 methyltransferase; COVID-19 recombinant protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                    |
|-------------------------|----------------------------------------------------------------------------------------------------|
| Host                    | E Coli                                                                                             |
| Purity/Purification     | >80% as determined by reducing SDS-PAGE.                                                           |
| Form/Format             | Supplied as a 0.2 um Filtered Solution of PBS, 10% Glycerol, pH 7.4.                               |
| Concentration           | 0.48 mg/mL (varies by lot)                                                                         |
| Sequence Positions      | Ala1-Gln527                                                                                        |
| Sequence Length         | 527                                                                                                |
| Species                 | Virus                                                                                              |
| Endotoxin               | < 1.0 EU per ug as determined by the LAL method.                                                   |
| Fusion Tag              | N-6His                                                                                             |
| 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 | Upon receipt, store it immediately at < -20 degree C. Please minimize freeze-thaw cycles.          |

### ADDITIONAL INFORMATION

|                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| Related Product Information for COVID-19 recombinant protein | Background: The nonstructural protein (nsp) 14 of SARS-CoV 2 was identified as a cap (guanine-N7)-methyltransferase (N7-MTase). Nsp14 of coronaviruses two different activities: an exoribonuclease activity acting on both ssRNA and dsRNA in a 3' to 5' direction and a N7-guanine methyltransferase activity. It may be involved in the proof-reading ability during the viral RNA replication and transcription. GTP, dGTP as well as cap analogs GpppG, GpppA and m7GpppG could be methylated by nsp14. positive-stranded RNA genome of the coronaviruses is translated from ORF1 to yield polyproteins that are proteolytically processed into intermediate and mature nonstructural proteins (nsps). SARS-CoV 2 polyproteins incorporate 16 protein domains (nsps). The putative non-structural protein 2 (nsp2) of SARS-CoV plays an important role in viral transcription and replication, and is an attractive target for anti-SARS drug development. |
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### NCBI AND UNIPROT INFORMATION

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|---------------------------|-------------------------------------------------------------------|
| NCBI GI #                 | <a href="#">1802476817</a>                                        |
| NCBI Accession #          | <a href="#">YP_009725309.1</a>                                    |
| NCBI GenBank Nucleotide # | <a href="#">YP_009725309.1</a>                                    |
| Molecular Weight          | Molecular Mass: 62.9 kDa<br>Actual Protein Molecular Mass: 60 kDa |

**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/covid-19-guanine-n7-meth-protein-coronavirus-recombinant-protein-e-coli/176994>