



# Recombinant SARS-CoV-2 NSP16 [GST] (DAGC199)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	Recombinant SARS-CoV-2 NSP16 is produced by E.coli expression system and the target gene encoding Ser6799-Asn7096 is expressed with N-GST Tag.
<b>Species</b>	SARS-CoV-2
<b>Purity</b>	> 90 % as determined by SDS-PAGE.
<b>Conjugate</b>	GST
<b>Applications</b>	Immunogen
<b>Molecular Weight</b>	Predicted molecular weight 61kDa
<b>Format</b>	Liquid
<b>Size</b>	1 mg
<b>Buffer</b>	Supplied as solution form in PBS, pH 7.5, 0.02% NLS
<b>Preservative</b>	None
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8°C for one week. Store at -20 to -80°C for twelve months from the date of receipt.

## BACKGROUND

<b>Introduction</b>	NSP10, Plays a pivotal role in viral transcription by stimulating both nsp14 3'-5' exoribonuclease and 2'-O-methyltransferase (NSP16) activities. Therefore plays an essential role in viral mRNAs cap methylation. 2'-O-methyltransferase (NSP16) that mediates mRNA cap 2'-O-ribose
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methylation to the 5'-cap structure of viral mRNAs. N7-methyl guanosine cap is a prerequisite for binding of nsp16. Therefore plays an essential role in viral mRNAs cap methylation which is essential to evade immune system. Nsp10 forms a dodecamer and interacts with nsp14 and nsp16; these interactions enhance nsp14 and nsp16 enzymatic activities.

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<b>Keywords</b>	SARS-CoV-2 NSP16; SARS-CoV-2
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