

Recombinant SARS-CoV-2 NSP16 [His] (DAGC201)

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

PRODUCT INFORMATION

Product Overview	Recombinant SARS-CoV-2 NSP16 is produced by E.coli expression system and the target gene encoding Ser6799-Asn7096 is expressed with N-His Tag.
Nature	Recombinant
Expression System	E.coli
Species	SARS-CoV-2
Purity	> 90 % as determined by SDS-PAGE.
Conjugate	His
Applications	Immunogen
Molecular Weight	Predicted molecular weight 36.41kDa
Procedure	None
Format	Liquid/Lyophilized
Size	100 μg, 1 mg
Buffer	Supplied as solution form in PBS, pH 7.5/Supplied as lyophilized from PBS,pH 7.5
Preservative	None
Storage	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

45-1 Ramsey Road, Shirley, NY 11967, USA
Email:info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221
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Introduction	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 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.
Keywords	SARS-CoV-2 NSP16; SARS-CoV-2

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