Datasheet for ABIN6952709

SARS-CoV-2 NSP16, NSP10 protein (His tag,Twin-Strep tag)

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1 Image

Overview

Quantity:	100 µg
Target:	SARS-CoV-2 NSP16, NSP10
Origin:	SARS Coronavirus-2 (SARS-CoV-2)
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	His tag,Twin-Strep tag

Product Details

Purpose:	SARS-CoV-2 (COVID-19) NSP16&NSP10 Heterodimer Protein, His Tag&Twin Strep Tag
Sequence:	AA 1-298
Characteristics:	SARS-CoV-2 NSP16&NSP10 Heterodimer Protein, His Tag&Twin Strep Tag (NS0-C51W3) is expressed from E.coli cells. It contains AA Ser 1 - Asn 298 (NSP16) & Ala 1 - Gln 139 (NSP10) (Accession # YP_009725311.1 (NSP16) & YP_009725306.1 (NSP10). Predicted N-terminus: Met (NSP16) & Met (NSP10) SARS-CoV-2 NSP16&NSP10 Heterodimer Protein, His Tag&Twin Strep Tag is produced by co-expression of NSP16 and NSP10, has a calculated MW of 35.2 kDa (NSP16) and 17.4 kDa (NSP10). Subunit NSP16 is fused with a polyhistidine tag at the N-terminus and subunit NSP10 is fused with a Twin Strep tag at the N-terminus.
Purity:	>90 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	SARS-CoV-2 NSP16, NSP10
Alternative Name:	SARS-CoV-2 NSP16 & NSP10
Target Type:	Viral Protein
Background:	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.
Molecular Weight:	35.3 kDa (NSP16) & 18.3 kDa (NSP10)

Application Details

Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS, pH 7.4
Storage:	-80 °C
Storage Comment:	The product MUST be stored at -70°C or lower upon receipt -70°C for 3 months under sterile conditions.

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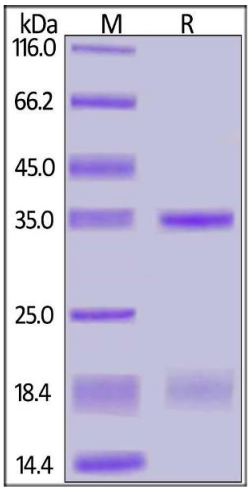

SDS-PAGE

Image 1. SARS-CoV-2 NSP16&NSP10 Heterodimer Protein, His Tag&Twin Strep Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90 % .

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