



Recombinant SARS-CoV-2 Guanine-N7_meth [His] (DAGC172)

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

PRODUCT INFORMATION

Product Overview	Recombinant SARS-CoV-2 Guanine-N7 methyltransferase is produced by our E.coli expression system and the target gene encoding Ala1-Gln527 is expressed with a 6His tag at the N-terminus.
Species	coronavirus
Purity	Greater than 85% as determined by reducing SDS-PAGE.
Conjugate	His
Molecular Weight	62.9kDa
Format	Liquid
Size	50 µg
Buffer	Supplied as a 0.2 um filtered solution of PBS, 10% Glycerol, pH 7.4.
Preservative	None
Storage	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.

BACKGROUND

Introduction	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
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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.

Keywords

SARS-CoV 2 nsp14; SARS-CoV 2 ExoN; Guanine-N7 methyltransferase; SARS-CoV-2
