



Recombinant SARS-CoV-2 NSP3 [His] (DAGC200)

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

PRODUCT INFORMATION

Product Overview	Recombinant SARS-CoV-2 NSP3 is produced by E.coli expression system and the target gene encoding Glu1024-Gln1198 is expressed with N-His Tag.
Species	SARS-CoV-2
Purity	> 90 % as determined by SDS-PAGE.
Conjugate	His
Applications	Immunogen
Molecular Weight	Predicted molecular weight 22.03kDa
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

Introduction	The multi-domain non-structural protein 3 (Nsp3) is the largest protein encoded by the coronavirus (CoV) genome, with an average molecular mass of about 200 kD. Nsp3 is an essential component of the replication/transcription complex. It comprises various domains, the
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organization of which differs between CoV genera, due to duplication or absence of some domains. However, eight domains of Nsp3 exist in all known CoVs: the ubiquitin-like domain 1 (Ubl1), the Glu-rich acidic domain (also called "hypervariable region"), a macrodomain (also named "X domain"), the ubiquitin-like domain 2 (Ubl2), the papain-like protease 2 (PL2pro), the Nsp3 ectodomain (3Ecto, also called "zinc-finger domain"), as well as the domains Y1 and CoV-Y of unknown functions. In addition, the two transmembrane regions, TM1 and TM2, exist in all CoVs.

Keywords	SARS-CoV-2 NSP3; SARS-CoV-2
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