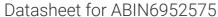
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SARS-CoV-2 NSP14 Protein (His tag)



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Quantity:	1 mg
Target:	SARS-CoV-2 NSP14 (ExoN)
Origin:	SARS Coronavirus-2 (SARS-CoV-2)
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SARS-CoV-2 NSP14 protein is labelled with His tag.
Application: Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)	

Product Details

Sequence:

AENVTGLFKD CSKVITGLHP TQAPTHLSVD TKFKTEGLCV DIPGIPKDMT YRRLISMMGF KMNYQVNGYP NMFITREEAI RHVRAWIGFD VEGCHATREA VGTNLPLQLG FSTGVNLVAV PTGYVDTPNN TDFSRVSAKP PPGDQFKHLI PLMYKGLPWN VVRIKIVQML SDTLKNLSDR VVFVLWAHGF ELTSMKYFVK IGPERTCCLC DRRATCFSTA SDTYACWHHS IGFDYVYNPF MIDVQQWGFT GNLQSNHDLY CQVHGNAHVA SCDAIMTRCL AVHECFVKRV DWTIEYPIIG DELKINAACR KVQHMVVKAA LLADKFPVLH DIGNPKAIKC VPQADVEWKF YDAQPCSDKA YKIEELFYSY ATHSDKFTDG VCLFWNCNVD RYPANSIVCR FDTRVLSNLN LPGCDGGSLY VNKHAFHTPA FDKSAFVNLK QLPFFYYSDS PCESHGKQVV SDIDYVPLKS ATCITRCNLG GAVCRHHANE YRLYLDAYNM MISAGFSLWV YKQFDTYNLW NTFTRLQ

Sequence without tag. Tag location is at the discretion of the manufactur er. If you have a special request, please contact us.

Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- SARS-CoV-2 Guanine-N7 Methyltransferase Protein (raised in Insect Cells) purified by multi-

step, protein-specific process to ensure crystallization grade.

· State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

- 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Endotoxin Level:

Protein is endotoxin free.

specific reference buffer.

Grade:

Crystallography grade

Target Details

Target: SARS-CoV-2 NSP14 (ExoN)

Alternative Name:

Proofreading Exoribonuclease (ExoN Products)

Target Details

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Target Type:	Viral Protein	
Background:	Cleavage product of rpp1ab polyprotein (AA 5926-6452) from the Wuhan-Hu-1 isolate, Wuhan, China Dec 2019	
	Enzyme possessing two different activities: an exoribonuclease activity acting on both ssRNA	
	and dsRNA in a 3' to 5' direction and a N7-guanine methyltransferase activity. Acts as a	
	proofreading exoribonuclease for RNA replication, thereby lowering The sensitivity of the virus	
	to RNA mutagensB	
Molecular Weight:	59816	
NCBI Accession:	YP_009725309	
UniProt:	P0DTD1	
Application Details		
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies	
	as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee though.	
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be	
	insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to	
	increase solubility. We will discuss all possible options with you in detail to assure that you	
	receive your protein of interest.	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Buffer:	100 mM NaCL, 20 mM Hepes, 10 % glycerol. pH value is at the discretion of the manufacturer.	
Handling Advice:	Avoid repeated freeze-thaw cycles.	
Storage:	-80 °C	
Storage Comment:	Store at -80°C.	
Expiry Date:	Unlimited (if stored properly)	