

Datasheet for ABIN6952696
SARS-CoV-2 NSP13 Protein (His tag)



[Go to Product page](#)

2 Images

Overview

Quantity:	100 µg
Target:	SARS-CoV-2 NSP13 (HEL)
Origin:	SARS Coronavirus-2 (SARS-CoV-2)
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SARS-CoV-2 NSP13 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	<p>MAVGACVLCN SQTSLRCGAC IRRPFLCCKC CYDHVISTSH KLVLSVNPYV CNAPGCDVTD VTQLYLGGMS YYCKSHKPPi SFPLCANGQV FGLYKNTCVG SDNVTDFNAI ATCDWTNAGD YILANTCTER LKLFAAETLK ATEETFKLSY GIATVREVLS DRELHLSWEV GKPRPPLNRN YVFTGYRVTK NSKVQIGEYF FEKGDYGDAV VYRGTTTYKL NVGDYFVLTS HTVMPLSAPT LVPQEHYVRI TGLYPTLNIS DEFSSNVANY QKVGMMQKYST LQGPPGTGKS HFAIGLALYY PSARIVYTAC SHAAVDALCE KALKYLPIDK CSRIIPARAR VECFDKFKVN STLEQYVFCT VNALPETTAD IVVFDEISMA TNYDLSVVNA RLRKHYVYI GDPAQLPAPR TLLTKGTLEP EYFNSVCRML KTIGPDMFLG TCRRCPAEIV DTVSALVYDN KLKAHKDKSA QCFKMFYKGV ITHDVSSAIN RPQIGVVREF LTRNPAWRKA VFISPYNSQN AVASKILGLP TQTVDSSQGS EYDYVIFTQT TETAHSCNVN RFNVAITRAK VGILCIMS DR DLYDKLQFTS LEIPRRNVAT LQHSHHHHH</p>
Specificity:	C-terminal His-tag

Product Details

Characteristics:	<ul style="list-style-type: none">• Made in Germany - from design to production - by highly experienced protein experts.• SARS-CoV-2 Helicase 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). <p>This made-to-order protein has already been successfully produced. Please let us know if you are interested in purchasing a smaller amount of this protein. We will check our stock and make you a customized quote in case we can provide this protein in a smaller amount..</p> <p>When you order this made-to-order protein you will only pay upon receipt 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.</p> <p>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 specific reference buffer.</p> <p>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.</p>
------------------	--

Purification:	<p>Two step purification of proteins expressed in baculovirus infected SF9 insect cells:</p> <ol style="list-style-type: none">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.2. 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.
------------------	----------------------------

Grade:	Crystallography grade
--------	-----------------------

Target Details

Target:	SARS-CoV-2 NSP13 (HEL)
Alternative Name:	SARS-CoV-2 Helicase (HEL Products)
Target Type:	Viral Protein
Background:	Cleavage product of rpp1ab polyprotein (AA 5325-5925) from the Wuhan-Hu-1 isolate, Wuhan, China Dec 2019

Target Details

Multi-functional protein with a zinc-binding domain in N-terminus displaying RNA and DNA duplex-unwinding activities with 5' to 3' polarity. Activity of helicase is dependent on magnesiumB

Molecular Weight: 66855

NCBI Accession: [YP_009725308](#)

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

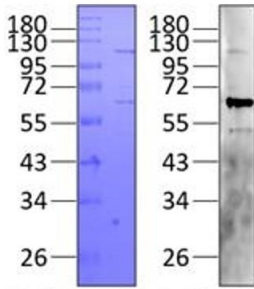
Buffer: 50 mM Hepes pH 6.8, 500 mM NaCl, 5 % glycerol

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

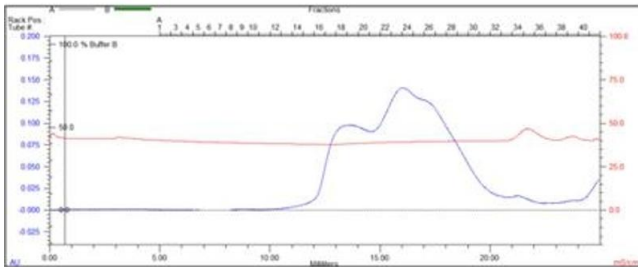
Expiry Date: Unlimited (if stored properly)



SARS-CoV-2 NSP13 Protein (SARS-CoV-2 Helicase (NSP13)) (His tag)|P0DTD1|5325-5925, gel filtration, Superose 6 fractions 17-20

Western Blotting

Image 1.



SARS-CoV-2 NSP13 Protein (SARS-CoV-2 Helicase (NSP13)) (His tag)|P0DTD1|5325-5925, gel filtration, Superose 6 fractions 17-20

Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2.