

Datasheet for ABIN3092076
DDX11 Protein (AA 1-970) (His tag)[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	DDX11
Protein Characteristics:	AA 1-970
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DDX11 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MANETQKVGA IHFPFPFTPY SIQEDFMAEL YRVLEAGKIG IFESPTGTGK SLSLICGALS WLRDFEQKKR EEEARLLETG TGPLHDEKDE SLCLSSSCEG AAGTPRPAGE PAWVTQFVQK KEERDLVDRL KAEQARRKQR EERLQQLQHR VQLKYAAKRL RQEEEEERENL LRLSREMLET GPEAERLEQL ESGEEELVLA EYESDEEKKV ASRVDEDEDD LEEEHITKIY YCSRTHSQLA QFVHEVKKSP FGKDVRLVSL GSRQNLVCNE DVKSLGVSQQL INDRCVDMQR SRHEKKKGAE EEKPKRRRQE KQAACPFYNH EQMGLLRDEA LAEVKDMEQL LALGKEARAC PYYGSRLAIP AAQLVVLPIYQ MLLHAATRQA AGIRLQDQVQ IIDEAHNLID TITGMHSVEV SGSQLCQAHS QLLQYVERYG KRLKAKNLMY LKQILYLLEK FVAVLGGNIK QNPNTQSLSQ TGTELKTIND FLFQSQIDNI NLFKVQRYCE KSMISRKLFG FTERYGAVFS SREQPKLAGF QQFLQSLQPR TTEALAAPAD ESQASTLRPA SPLMHIQGFL AALTANQDG RVILSRQGSQ SQSTLKFLLL NPAVHFAQVW KECRAVVIAG GTMQPVSDFR QQLLACAGVE AERVVEFSCG HVIPPDNILP LVICSGISNQ PLEFTFQKRE LPQMMDEVGR ILCNLGCVVP GGVCFFPSY EYLRQVHAHW
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EKGGLLGRLA ARKKIFQEPK SAHQVEQVLL AYSRCIQACG QERGQVTGAL LLSVVGKMS
EGINFSDNLG RCVVMVGMPF PNIRSAELQE KMAYLDQTLS PRPGTPREGS GGEPVHEGRQ
PVHRQGHQAP EGFCQRSAPG PAICPAPCPG QAAGLDPSPC GGQSYLWPRH CCCAEVSPGE
VGLFLMGNHT TAWRRALPLS CPLETVFVVG VVGDPVTKV KPRRRVWSPE CCQDPGTGVS
SRRRKWGNPE

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

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human DDX11 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 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.

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.

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.
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.

Product Details

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:	DDX11
Alternative Name:	DDX11 (DDX11 Products)
Background:	<p>DNA helicase involved in cellular proliferation. Possesses DNA-dependent ATPase and helicase activities. This helicase translocates on single-stranded DNA in the 5' to 3' direction in the presence of ATP and, to a lesser extent, dATP. Its unwinding activity requires a 5'-single-stranded region for helicase loading, since flush-ended duplex structures do not support unwinding. The helicase activity is capable of displacing duplex regions up to 100 bp, which can be extended to 500 bp by RPA or the cohesion establishment factor, the Ctf18-RFC (replication factor C) complex activities. Stimulates the flap endonuclease activity of FEN1. Required for normal sister chromatid cohesion. Required for recruitment of bovine papillomavirus type 1 regulatory protein E2 to mitotic chromosomes and for viral genome maintenance. Required for maintaining the chromosome segregation and is essential for embryonic development and the prevention of aneuploidy. May function during either S, G2, or M phase of the cell cycle. Binds to both single- and double-stranded DNA. {ECO:0000269 PubMed:10648783, ECO:0000269 PubMed:17105772, ECO:0000269 PubMed:17189189, ECO:0000269 PubMed:18499658, ECO:0000269 PubMed:9013641}.</p>
Molecular Weight:	109.3 kDa Including tag.
UniProt:	Q96FC9
Pathways:	ER-Nucleus Signaling

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 guarantee 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

Application Details

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)

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process