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Datasheet for ABIN3096338

**RECQL2 Protein (AA 2-1432) (His tag)**

## Overview

Quantity:	1 mg
Target:	RECQL2 (WRN)
Protein Characteristics:	AA 2-1432
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RECQL2 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

## Product Details

Sequence:	SEKKLETTAQ QRKCPWMMNV QNKRCAVEER KACVRKSVFE DDLPFLEFTG SIVYSYDASD CSFLSEDISM SLSDGDVVG F DMEWPPLYNR GKLKGVLIQ LCVSESKCYL FHVSSMSVFP QGLKM LLENK AVKKAGVGIE GDQWKLLRDF DIKLNKFVEL TDVANKKLKC TETWSLNSLV KHLLGKQLLK DKSIRCSNWS KFPLTEDQKL YAATDAYAGF IYRNLEILD DTVQRFANK EEEILLSDMN KQLTSISEEV MDLAKHLPH FSKLENPRRV SILLKDISEN LYSLRMMIIG STNIETELRP SNNLNLLSFE DSTTGGVQQK QIREHEVLIH VEDETWDPTL DHLAKHDGED VLGNKVERKE DGFEDGVEDN KLKENMERAC LMSLDITEHE LQILEQQSQE EYLSDIAYKS TEHLSPNDNE NDTSYVIESD EDLEMEMLK H LSPNDNENDT SYVIESDEDL EMEMLKSLEN LNSGTVEPTH SKCLKMERNL GLPTKEEEE DENEANEGEE DDDKDFLWPA PNEEQVTCLK MYFGHSSFKP VQWKVIH SVL EERRDNVAVM ATGYGKSLCF QYPPVYVGKI GLVISPLISL MEDQVLQLKM SNIPACFLGS AQSENVLTDI KLGKYRIVYV TPEYCSGNMG LLQQLEADIG ITLIIVDEAH CISEWGHDFR DSFRKLGSLK TALPMVPIVA LTATASSSIR EDIVRCLNLR
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NPQITCTGFD RPNLYLEVRR KTGNIQLDLQ PFLVKTSSHW EFEGPTIYC PSRKMTQQVT  
GELRKLNLSC GTYHAGMSFS TRKDIHHRFV RDEIQCVIAT IAFGMGINKA DIRQVIHYGA  
PKDMESYYQE IGRAGRDGLQ SSCHVLWAPA DINLNRHLLT EIRNEKFRLY KLKMMAKMEK  
YLHSSRCRRQ IILSHFEDKQ VQKASLGIMG TEKCCDNCRS RLDHCYSMDD SEDTSWDFGP  
QAFKLLSAVD ILGEKFGIGL PILFLRGSNS QRLADQYRRH SLFGTGKDQT ESWWKAFSRQ  
LITEGFLVEV SRYNKFMIKIC ALTKKGRNWL HKANTESQSL ILQANEELCP KLLLLPSSKT  
VSSGTKEHCY NQVPVELSTE KKSNEKLYS YKPCDKISSG SNISKKSIMV QSPEKAYSSS  
QPVISAEQE TQIVLYGKLV EARQKHANKM DVPPAILATN KILVDMAMR PTTVENVKRI  
DGVSEGKAAM LAPLLEVIKH FCQTNSVQTD LFSSTKPQEE QKTSLVAKNK ICTLSQSMAL  
TYSLFQEKKM PLKSIAESRI LPLMTIGMHL SQAVKAGCPL DLERAGLTPE VQKIIADVIR  
NPPVNSDMSK ISLIRMLVPE NIDTYLIHMA IEILKHGPDS GLQPSCDVNK RRCFPGSEEI  
CSSSKRSKEE VGINTESSA ERKRRLPVWF AKGSDTSKKL MDKTKRGGLF S

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

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### Characteristics:

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

## Product Details

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.
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:	RECQL2 (WRN)
Alternative Name:	WRN ( <a href="#">WRN Products</a> )
Background:	<p>Multifunctional enzyme that has both magnesium and ATP-dependent DNA-helicase activity and 3'-&gt;5' exonuclease activity towards double-stranded DNA with a 5'-overhang. Has no nuclease activity towards single-stranded DNA or blunt-ended double-stranded DNA. Binds preferentially to DNA substrates containing alternate secondary structures, such as replication forks and Holliday junctions. May play an important role in the dissociation of joint DNA molecules that can arise as products of homologous recombination, at stalled replication forks or during DNA repair. Alleviates stalling of DNA polymerases at the site of DNA lesions. Important for genomic integrity. Plays a role in the formation of DNA replication focal centers, stably associates with foci elements generating binding sites for RP-A (By similarity). Plays a role in double-strand break repair after gamma-irradiation. {ECO:0000250, ECO:0000269 PubMed:11863428, ECO:0000269 PubMed:17563354, ECO:0000269 PubMed:18596042, ECO:0000269 PubMed:19283071, ECO:0000269 PubMed:19652551, ECO:0000269 PubMed:21639834}.</p>
Molecular Weight:	163.3 kDa Including tag.
UniProt:	<a href="#">Q14191</a>
Pathways:	<a href="#">DNA Damage Repair</a>

## Application Details

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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.
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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.
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Restrictions:	For Research Use only
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## Handling

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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)