



[Go to Product page](#)

Datasheet for ABIN3137237  
**DKC1 Protein (AA 2-509) (His tag)**

### Overview

Quantity:	1 mg
Target:	DKC1
Protein Characteristics:	AA 2-509
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DKC1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

### Product Details

Sequence: ADAEITFPK KHKKKKDRKP LQEDDVAEIQ HAEFLIKPE SKVAQLDTSQ WPLLLKNFDK  
LNVRTAHYTP LPCGSNPLKR EIGDYIRTGF INLDKPSNPS SHEVVAWIRR ILRVEKTGHS  
GTLDPKVTGC LIVCIERATR LVKSQQSAGK EYVGIVRLHN AIEGGTQLSR ALETLTGALF  
QRPLIAAVK RQLRVRTIYE SKMIEYDPER RLGIFWVSCE AGTYIRTLCV HLGLLLGVGG  
QMQLRRVRS GVMSEKDHMV TMHDVLDAQW LYDNHKDESY LRRVVYPLEK LLTSHKRLVM  
KDSAVNAICY GAKIMLPGLL RYEDGIEVNQ EIVVITTKGE AICMAIALMT TAVISTCDHG  
IVAKIKRVIM ERDTPRKWG LGPKASQKKM MIKQGLLDKH GKPTDNTPAT WKQDYIDYSD  
SGKNTLVTEA VQAPQLAAEA VNVIKRKRDS ESEDETPTV PQLKEKKEKKEK DKKPKTVLES  
GGETGDGDND TTKKKKKKKV KVVEEMSE

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

## Product Details

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- Characteristics:
- Made in Germany - from design to production - by highly experienced protein experts.
  - Mouse Dkc1 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.

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- 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.

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

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Sterility: 0.22 µm filtered

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Endotoxin Level: Protein is endotoxin free.

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Grade: Crystallography grade

## Target Details

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Target:	DKC1
Alternative Name:	Dkc1 ( <a href="#">DKC1 Products</a> )
Background:	Required for ribosome biogenesis and telomere maintenance. Probable catalytic subunit of H/ACA small nucleolar ribonucleoprotein (H/ACA snoRNP) complex, which catalyzes pseudouridylation of rRNA. This involves the isomerization of uridine such that the ribose is subsequently attached to C5, instead of the normal N1. Each rRNA can contain up to 100 pseudouridine ('psi') residues, which may serve to stabilize the conformation of rRNAs. Also required for correct processing or intranuclear trafficking of TERC, the RNA component of the telomerase reverse transcriptase (TERT) holoenzyme. {ECO:0000269 PubMed:12522253, ECO:0000269 PubMed:15240872}.
Molecular Weight:	58.2 kDa Including tag.
UniProt:	<a href="#">Q9ESX5</a>
Pathways:	<a href="#">Telomere Maintenance</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.
Comment:	Protein has not been tested for activity yet. 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

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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)