

Datasheet for ABIN7564772
RECQL5 Protein (AA 1-982) (His tag)



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Overview

Quantity:	1 mg
Target:	RECQL5
Protein Characteristics:	AA 1-982
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RECQL5 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Recq 5 Protein expressed in mammalien cells.
Sequence:	MSARPFSTPF DRERRVRSTL KKVFGFDSFK TPLQESATMA VVKAEDV FV CMPTGAGKSL CYQLPALLAS GITIVSPLI ALIQDQVDHL LALKVQVSSL NSKLSVQERK ELLSDLERDK PRTKLLYITP EMAASASFQP TLNSLVSRNL LSYLVVDEAH CVSQWGHDFR PDYLRLGALR SRLAHAPCVA LTATATPQVQ EDVFAALHLK QPVASFKTPC FRANLFYDVQ FKELIPDVYQ NLRDFCLKAL GQKAENGSSS GCGIVYCRTR EACEQLAIEL SSRGVNAKAY HAGLKASDRT QVQNEWMEEK VPVIVATISF GMGVDKANVR FVAHWNI AKS MAGYYQESGR AGRDGKPSWC RLYYSRNDRD QVSFLIRKEL AKLQEKRGNK PSDKATLLAF DALVTFCEEV GCRHAAIAKY FGDAPPACAK GCDYCQNPA ITKKLDALER SSSWSKTCIG PSQNGGFDPE LYEGGRRGYG GFSRYDEGSG GSGDEGRDEA HKREWNLFYQ KQMSLRKGKE PKIEEFTPPD EDCPLREASS RKIPKLTVKA REHCLRLLEE ALISNHQAAG STHGADLQAK AVELEHETFR NAKMVNLYKA SVLKKVAEIH KASKDGQLYD MESGTKSCGA AAEFSEPSDY DIPPTSHVYS LKPKRVGAGF

Product Details

SKGPCSFQTA TELLGKSHSQ KQAPEAMLEG GQEPPGWVCD LQDEDRSKPH PGYQEALGS
SVNCGDPSPE KKTGSSQGS AKARASKKQQ LLATAARKDS QNITRFLCQR TESPPLPASV
PRSEDAASPSC GDVPGKCTQE VGAQGHLVAV FQTEGPRERP STCSLRDQSF PEGQPSPLKE
TQAEKRPRPQ QGNPERRAQK RLRPSTKSSI LAEAKDSTLA SDRSTENKVA QEPCQLSASG
TSLREAADIV VRHLTPFYKE GRFISKDLFK GFARHLSHLL AQLSPGRSV KEEAQSLIKQ
FFHNRARCES EADWHSLRGP QR **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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 try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

RECQL5

Alternative Name:

Recq15 ([RECQL5 Products](#))

Background:

ATP-dependent DNA helicase Q5 (EC 5.6.2.4) (DNA 3'-5' helicase RecQ5) (DNA helicase, RecQ-like type 5) (RecQ5) (RECQL5beta) (RecQ protein-like 5),FUNCTION: DNA helicase that plays an important role in DNA replication, transcription and repair. Binds to the RNA polymerase II subunit POLR2A during transcription elongation and suppresses transcription-associated genomic instability. Associates also with POLR1A and enforces the stability of ribosomal DNA

Target Details

arrays. Plays an important role in mitotic chromosome separation after cross-over events and cell cycle progress. Mechanistically, removes RAD51 filaments protecting stalled replication forks at common fragile sites and stimulates MUS81-EME1 endonuclease leading to mitotic DNA synthesis. Required for efficient DNA repair, including repair of inter-strand cross-links. Stimulates DNA decatenation mediated by TOP2A. Prevents sister chromatid exchange and homologous recombination. {ECO:0000250|UniProtKB:O94762}.

Molecular Weight: 108.2 kDa

UniProt: [Q8VID5](#)

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.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition 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: 12 months