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RECQL5 Protein (AA 1-982) (Strep Tag)



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Overview

Quantity:	1 mg
Target:	RECQL5
Protein Characteristics:	AA 1-982
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RECQL5 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:

MSARPFSTPF DRERRVRSTL KKVFGFDSFK TPLQESATMA VVKGAEDVFV CMPTGAGKSL
CYQLPALLAS GITIVVSPLI ALIQDQVDHL LALKVQVSSL NSKLSVQERK ELLSDLERDK
PRTKLLYITP EMAASASFQP TLNSLVSRNL LSYLVVDEAH CVSQWGHDFR PDYLRLGALR
SRLAHAPCVA LTATATPQVQ EDVFAALHLK QPVASFKTPC FRANLFYDVQ FKELIPDVYG
NLRDFCLKAL GQKAENGSSS GCGIVYCRTR EACEQLAIEL SSRGVNAKAY HAGLKASDRT
QVQNEWMEEK VPVIVATISF GMGVDKANVR FVAHWNIAKS MAGYYQESGR AGRDGKPSWC
RLYYSRNDRD QVSFLIRKEL AKLQEKRGNK PSDKATLLAF DALVTFCEEV GCRHAAIAKY
FGDAPPACAK GCDYCQNPAA ITKKLDALER SSSWSKTCIG PSQGNGFDPE LYEGGRRGYG
GFSRYDEGSG GSGDEGRDEA HKREWNLFYQ KQMSLRKGKE PKIEEFTPPD EDCPLREASS
RKIPKLTVKA REHCLRLLEE ALISNHQAAG STHGADLQAK AVELEHETFR NAKMVNLYKA
SVLKKVAEIH KASKDGQLYD MESGTKSCGA AAEFSEPSDY DIPPTSHVYS LKPKRVGAGF
SKGPCSFQTA TELLGKSHSQ KQAPEAMLEG GQEPPGWVCD LQDEDRSKPH PGYQEKALGS

SVNCGDPSPE KKTKGSSQGS AKARASKKQQ LLATAARKDS QNITRFLCQR TESPPLPASV PRSEDASPSC GDVPGKCTQE VGAQGHLVAV FQTEGPRERP STCSLRDQSF PEGQPSPLKE TQAEKRPRPQ QGNPERRAQK RLRPSTKSSI LAEAKDSTLA SDRSTENKVA QEPCQLSASG TSLREAADIV VRHLTPFYKE GRFISKDLFK GFARHLSHLL AQQLSPGRSV KEEAQSLIKQ FFHNRARCES EADWHSLRGP QR

Sequence without tag. The proposed Strep-Tag is based on experience s 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 in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- 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

Product Details specific reference buffer. • We use the Expasy's protparam tool to determine the absorption coefficient of each protein. Purification: Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. 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: ≥ 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. Endotoxin Level: Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg) Target Details Target: RECQL5 Alternative Name: Recgl5 (RECQL5 Products) Background: ATP-dependent DNA helicase Q5 (EC 5.6.2.4) (DNA 3'-5' helicase RecQ5) (DNA helicase, RecQlike 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 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:094762).

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

Application Details

Application Details		
	guarantee though.	
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!	
Restrictions: Handling	For Research Use only	
Format:	Liquid	
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.	
Handling Advice:	Avoid repeated freeze-thaw cycles.	
Storage:	-80 °C	
Storage Comment:	Store at -80°C.	
Expiry Date:	Unlimited (if stored properly)	