

Datasheet for ABIN3130673 Cullin 4B Protein (CUL4B) (AA 1-970) (Strep Tag)



Overview

Quantity:	250 µg
Target:	Cullin 4B (CUL4B)
Protein Characteristics:	AA 1-970
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Cullin 4B protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MSRSTRSKER RENDTDSEDN SSETSNQERR RCRQGPPRPP YPPLLPPVFP PPTPPPQVRR
	TRGLQDLGAM KSVCPGTSGF SSPNPSAASA AAQEVRSATD GNTSTTPPTS AKKRKLNSSS
	SSSNSSNERE DFDSTSSSST PPQPRDSASP STSSFCLGVP VATSSHVPIQ KKLRFEDTLE
	FVGIDTKMAE ESSSSSSSSS PTAATSQQQQ QQQLKTKSIL ISSVASVHHA NGLAKSSTAV
	SSFANSKPGS AKKLVIKNFK DKPKLPENYT DETWQKLKEA VEAIQNSTSI KYNLEELYQA
	VENLCSHKIS ANLYKQLRQI CEDHIKAQIH QFREDSLDSV LFLKKIDRCW QNHCRQMIMI
	RSIFLFLDRT YVLQNSMLPS IWDMGLELFR AHIISDQKVQ TKTIDGILLL IERERNGEAI
	DRSLLRSLLS MLSDLQIYQD SFEQQFLQET NRLYAAEGQK LMQEREVPEY LHHVNKRLEE
	EADRLITYLD QTTQKSLIAS VEKQLLGEHL TAILQKGLNS LLDENRIQDL SLLYQLFSRV
	RGGVQVLLQQ WIEYIKAFGS TIVINPEKDK TMVQELLDFK DKVDHIIDTC FLKNEKFINA
	MKEAFETFIN KRPNKPAELI AKYVDSKLRA GNKEATDEEL EKMLDKIMII FRFIYGKDVF

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3130673 | 02/25/2025 | Copyright antibodies-online. All rights reserved. EAFYKKDLAK RLLVGKSASV DAEKSMLSKL KHECGAAFTS KLEGMFKDME LSKDIMIQFK QYMQNQNVPG NIELTVNILT MGYWPTYVPM EVHLPPEMVK LQEIFKTFYL GKHSGRKLQW QSTLGHCVLK AEFKEGKKEL QVSLFQTMVL LMFNEGEEFS LEEIKHATGI EDGELRRTLQ SLACGKARVL AKNPKGKDIE DGDKFICNDD FKHKLFRIKI NQIQMKETVE EQASTTERVF QDRQYQIDAA IVRIMKMRKT LSHNLLVSEV YNQLKFPVKP ADLKKRIESL IDRDYMERDK ENPNQYNYIA

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 in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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 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!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.

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Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression
	System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	Cullin 4B (CUL4B)
Alternative Name:	Cul4b (CUL4B Products)
Background:	Cullin-4B (CUL-4B),FUNCTION: Core component of multiple cullin-RING-based E3 ubiquitin-
	protein ligase complexes which mediate the ubiquitination and subsequent proteasomal
	degradation of target proteins (PubMed:35197566). The functional specificity of the E3
	ubiquitin-protein ligase complex depends on the variable substrate recognition subunit
	(PubMed:35197566). CUL4B may act within the complex as a scaffold protein, contributing to
	catalysis through positioning of the substrate and the ubiquitin-conjugating enzyme
	(PubMed:35197566). Plays a role as part of the E3 ubiquitin-protein ligase complex in
	polyubiquitination of CDT1, histone H2A, histone H3 and histone H4 in response to radiation-
	induced DNA damage (By similarity). Targeted to UV damaged chromatin by DDB2 and may be
	important for DNA repair and DNA replication (By similarity). A number of DCX complexes
	(containing either TRPC4AP or DCAF12 as substrate-recognition component) are part of the
	DesCEND (destruction via C-end degrons) pathway, which recognizes a C-degron located at the
	extreme C terminus of target proteins, leading to their ubiquitination and degradation (By
	similarity). The DCX(AMBRA1) complex is a master regulator of the transition from G1 to S cell
	phase by mediating ubiquitination of phosphorylated cyclin-D (CCND1, CCND2 and CCND3) (By
	similarity). The DCX(AMBRA1) complex also acts as a regulator of Cul5-RING (CRL5) E3
	ubiquitin-protein ligase complexes by mediating ubiquitination and degradation of Elongin-C
	(ELOC) component of CRL5 complexes (By similarity). Required for ubiquitination of cyclin E
	(CCNE1 or CCNE2), and consequently, normal G1 cell cycle progression (By similarity).
	Component of the DCX(WDR77) complex, which mediates ubiquitination and degradation of
	Irgm1 in intestinal cells (PubMed:35197566). Regulates the mammalian target-of-rapamycin
	(mTOR) pathway involved in control of cell growth, size and metabolism (By similarity). Specific
	CUL4B regulation of the mTORC1-mediated pathway is dependent upon 26S proteasome

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Target Details	
	function and requires interaction between CUL4B and MLST8 (By similarity). With CUL4A, contributes to ribosome biogenesis (By similarity). {ECO:0000250 UniProtKB:Q13620, ECO:0000269 PubMed:35197566}.
Molecular Weight:	110.7 kDa
UniProt:	A2A432
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:	 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:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months

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