

Datasheet for ABIN3092074 DCLRE1C Protein (AA 1-692) (Strep Tag)



Overview

Quantity:	250 µg
Target:	DCLRE1C
Protein Characteristics:	AA 1-692
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DCLRE1C protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MSSFEGQMAE YPTISIDRFD RENLRARAYF LSHCHKDHMK GLRAPTLKRR LECSLKVYLY
	CSPVTKELLL TSPKYRFWKK RIISIEIETP TQISLVDEAS GEKEEIVVTL LPAGHCPGSV
	MFLFQGNNGT VLYTGDFRLA QGEAARMELL HSGGRVKDIQ SVYLDTTFCD PRFYQIPSRE
	ECLSGVLELV RSWITRSPYH VVWLNCKAAY GYEYLFTNLS EELGVQVHVN KLDMFRNMPE
	ILHHLTTDRN TQIHACRHPK AEEYFQWSKL PCGITSRNRI PLHIISIKPS TMWFGERSRK
	TNVIVRTGES SYRACFSFHS SYSEIKDFLS YLCPVNAYPN VIPVGTTMDK VVEILKPLCR
	SSQSTEPKYK PLGKLKRART VHRDSEEEDD YLFDDPLPIP LRHKVPYPET FHPEVFSMTA
	VSEKQPEKLR QTPGCCRAEC MQSSRFTNFV DCEESNSESE EEVGIPASLQ GDLGSVLHLQ
	KADGDVPQWE VFFKRNDEIT DESLENFPSS TVAGGSQSPK LFSDSDGEST HISSQNSSQS
	THITEQGSQG WDSQSDTVLL SSQERNSGDI TSLDKADYRP TIKENIPASL MEQNVICPKD
	TYSDLKSRDK DVTIVPSTGE PTTLSSETHI PEEKSLLNLS TNADSQSSSD FEVPSTPEAE

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LPKREHLQYL YEKLATGESI AVKKRKCSLL DT

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 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 against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).

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Product Details

 Purity:
 > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

 Grade:
 custom-made

Target Details

Target:	DCLRE1C
Alternative Name:	DCLRE1C (DCLRE1C Products)
Background:	Protein artemis (EC 3.1) (DNA cross-link repair 1C protein) (Protein A-SCID) (SNM1 homolog
	C) (hSNM1C) (SNM1-like protein),FUNCTION: Nuclease involved in DNA non-homologous end
	joining (NHEJ), required for double-strand break repair and V(D)J recombination
	(PubMed:11336668, PubMed:11955432, PubMed:12055248, PubMed:14744996,
	PubMed:15071507, PubMed:15574326, PubMed:15936993). Required for V(D)J recombination,
	the process by which exons encoding the antigen-binding domains of immunoglobulins and T-
	cell receptor proteins are assembled from individual V, (D), and J gene segments
	(PubMed:11336668, PubMed:11955432, PubMed:14744996). V(D)J recombination is initiated
	by the lymphoid specific RAG endonuclease complex, which generates site specific DNA double
	strand breaks (DSBs) (PubMed:11336668, PubMed:11955432, PubMed:14744996). These
	DSBs present two types of DNA end structures: hairpin sealed coding ends and phosphorylated
	blunt signal ends (PubMed:11336668, PubMed:11955432, PubMed:14744996). These ends are
	independently repaired by the non homologous end joining (NHEJ) pathway to form coding and
	signal joints respectively (PubMed:11336668, PubMed:11955432, PubMed:14744996). This
	protein exhibits single-strand specific 5'-3' exonuclease activity in isolation and acquires
	endonucleolytic activity on 5' and 3' hairpins and overhangs when in a complex with PRKDC
	(PubMed:15071507, PubMed:15574326, PubMed:11955432, PubMed:15936993). The latter
	activity is required specifically for the resolution of closed hairpins prior to the formation of the
	coding joint (PubMed:11955432). Also required for the repair of complex DSBs induced by
	ionizing radiation, which require substantial end-processing prior to religation by NHEJ
	(PubMed:15456891, PubMed:15468306, PubMed:15574327, PubMed:15811628).
	{ECO:0000269 PubMed:11336668, ECO:0000269 PubMed:11955432,
	ECO:0000269 PubMed:12055248, ECO:0000269 PubMed:14744996,
	ECO:0000269 PubMed:15071507, ECO:0000269 PubMed:15456891,
	EC0:0000269 PubMed:15468306, EC0:0000269 PubMed:15574326,
	EC0:0000269 PubMed:15574327, EC0:0000269 PubMed:15811628,
	ECO:0000269 PubMed:15936993}.

Molecular Weight:

78.4 kDa

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Target Details	
UniProt:	Q96SD1
Pathways:	DNA Damage Repair
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

Expiry Date:

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