

Datasheet for ABIN7564674

DCLRE1C Protein (AA 1-705) (His tag)



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Overview

Quantity:	1 mg
Target:	DCLRE1C
Protein Characteristics:	AA 1-705
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DCLRE1C protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Dclre1c Protein expressed in mammalian cells.
Sequence:	<p>MSSFQGGMAE YPTISIDRFD RENLKARAYF LSHCHKDHMK GLRAPSLKRR LECSLKVFLY CSPVTKELLL TSPKYRFWEN RIITIEIETP TQISLVDEAS GEKEEVVWTL LPAGHCPSV MFLFQGSNGT VLYTGDFRLA KGEASRMELL HSGGRVKDIQ SVYLDTTFCFCD PRFYQIPSRE QCLRGILELV RSWVTRSPHH VVWLNCKAAY GYEYLFNTLS EELGVQVHVD KLD MFKNMPD ILHHLTTDRN TQIHACRHPK AEECFQWNKL PCGITSQNKT ALHTISIKPS TMWFGERTRK TNVIVRTGES SYRACFSFHS SFSEIKDFLS YICPVNVYPN VIPVGLTVDK VMDVLKPLCR SPQSVEPKYK PLGKLRART IHL DSEEDDD LFDDPLPTPL RHKVPYQLTL QPELFSMKAL PLDQPELRQS PGGCKAESVW SPSLANFIDC EESNSDSGEE LETPPPSLQG GLGPSTLVQQ NADPDVDIPQ WEVFFKRRDE ITGECLEHLP SSIETGGSQS PKLCSDSPKL CSDSPKLCSD SDGDSTHISS QNSSQSTHIT DQGSQGWDSQ CDTVLLSSQE KSGGDSTSLN KGAYKPKLKE SISASQIEQD ALCPQDTHCD LKSRAEVNGA PCLVELDTLS GRKSPPEKTL LSSTRADSQS SSDFEIPSTP EAELPTPEHL QCLYRKLATG QSIVVEKRKC SLLDS Sequence without tag. The</p>

Product Details

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.

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: DCLRE1C

Alternative Name: Dclre1c ([DCLRE1C Products](#))

Background: Protein artemis (mArt) (EC 3.1.-.-) (DNA cross-link repair 1C protein) (SNM1-like protein),FUNCTION: 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. V(D)J recombination is initiated by the lymphoid specific RAG endonuclease complex, which generates site specific DNA double strand breaks (DSBs). These DSBs present two types of DNA end structures: hairpin sealed coding ends and phosphorylated blunt signal ends. These ends are independently repaired by the non homologous end joining (NHEJ) pathway to form coding and signal joints respectively. This

Target Details

protein likely exhibits single-strand specific 5'-3' exonuclease activity in isolation, and may acquire endonucleolytic activity on 5' and 3' hairpins and overhangs when in a complex with PRKDC. The latter activity may be required specifically for the resolution of closed hairpins prior to the formation of the coding joint. May also be required for the repair of complex DSBs induced by ionizing radiation, which require substantial end-processing prior to religation by NHEJ. {ECO:0000269|PubMed:12504013, ECO:0000269|PubMed:12615897, ECO:0000269|PubMed:15699179}.

Molecular Weight: 78.8 kDa

UniProt: [Q8K4J0](#)

Pathways: [DNA Damage Repair](#)

Application Details

Application Notes: We expect the protein to work for functional studies. 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