Datasheet for ABIN3137012

BCL11B Protein (AA 1-884) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	BCL11B
Protein Characteristics:	AA 1-884
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This BCL11B protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MSRRKQGNPQ HLSQRELITP EADHVEATIL EEDEGLEIEE PSSLGLMVGG PDPDLLTCGQ CQMNFPLGDI LVFIEHKKKQ CGGLGPCYDK VLDKSSPPPS SRSELRRVSE PVEIGIQVTP DEDDHLLSPT KGICPKQENI AGPCRPAQLP SMAPIAASSS HPPTSVITSP LRALGVLPPC FPLPCCGARP ISGDGTQGEG QMEAPFGCQC ELSGKDEPSS YICTTCKQPF NSAWFLLQHA QNTHGFRIYL EPGPASTSLT PRLTIPPPLG PETVAQSPLM NFLGDSNPFN LLRMTGPILR DHPGFGEGRL PGTPPLFSPP PRHHLDPHRL SAEEMGLVAQ HPSAFDRVMR LNPMAIDSPA MDFSRRLREL AGNSSTPPPV SPGRGNPMHR LLNPFQPSPK SPFLSTPPLP PMPAGTPPPQ PPAKSKSCEF CGKTFKFQSN LIVHRRSHTG EKPYKCQLCD HACSQASKLK RHMKTHMHKA GSLAGRSDDG LSAASSPEPG TSELPGDLKA ADGDFRHHES DPSLGPEPED DEDEEEEEEE LLLENESRPE SSFSMDSELG RGRENGGGVP PGVAGAGAAA AALADEKALA LGKVMEDAGL GALPQYGEKR GAFLKRAGDT GDAGAVGCGD AGAPGAVNGR GGAFAPGAEP FPALFPRKPA

PLPSPGLGGP ALHAAKRIKV EKDLELPPAA LIPSENVYSQ WLVGYAASRH FMKDPFLGFT DARQSPFATS SEHSSENGSL RFSTPPGDLL DGGLSGRSGT ASGGSTPHLG GPGPGRPSSK EGRRSDTCEY CGKVFKNCSN LTVHRRSHTG ERPYKCELCN YACAQSSKLT RHMKTHGQIG KEVYRCDICQ MPFSVYSTLE KHMKKWHGEH LLTNDVKIEQ AERS

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.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Product Details

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:	BCL11B
Alternative Name:	Bcl11b (BCL11B Products)
Background:	B-cell lymphoma/leukemia 11B (BCL-11B) (B-cell CLL/lymphoma 11B) (COUP-TF-interacting protein 2) (Radiation-induced tumor suppressor gene 1 protein) (mRit1),FUNCTION: Key regulator of both differentiation and survival of T-lymphocytes during thymocyte development in mammals (PubMed:12717433). Essential in controlling the responsiveness of hematopoietic stem cells to chemotactic signals by modulating the expression of receptors CCR7 and CCR9, which direct the movement of progenitor cells from the bone marrow to the thymus (By similarity). Is a regulator of IL2 promoter and enhances IL2 expression in activated CD4(+) T-lymphocytes (PubMed:16809611). Tumor-suppressor protein involved in T-cell lymphomas. May function on the P53-signaling pathway. Repress transcription through direct, TFCOUP2-independent binding to a GC-rich response element. {ECO:0000250|UniProtKB:Q9C0K0, ECO:0000269|PubMed:12717433, ECO:0000269|PubMed:16809611}.
Molecular Weight:	94.6 kDa
UniProt:	Q99PV8

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

Application Details

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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