

Datasheet for ABIN3094769

PRDM14 Protein (AA 1-571) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	PRDM14
Protein Characteristics:	AA 1-571
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PRDM14 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	<p>MALPRPSEAV PQDKVCYPPE SSPQNLAAYY TPFPSYGHYR NSLATVEEDF QPFRQLEAAA SAAPAMPPFP FRMAPLLSP GLGLQREPLY DLPWYSKLPP WYPIPHVPRE VPPFLSSSHE YAGASSEDLG HQIIGGDNES GPCCGPDTLI PPPPADASLL PEGLRTSQLL PCSPSKQSED GPKPSNQEGK SPARFQFTEE DLHFVLYGVT PSLEHPASLH HAISGLLVPP DSSGSDSLPQ TLDKDSLQLP EGLCLMQTVF GEVPHFGVFC SSFIKGVRF GPFQGKVVNA SEVKTYGDNS VMWEIFEDGH LSHFIDGKGG TGNWMSYVNC ARFPKEQNLV AVQCQGHIFY ESCKEIHQNQ ELLVWYGDCY EKFLDIPVSL QVTEPGKQPS GPSEESAEGY RCERCQKVFT YKYYRDKHLK YTPCVDKGDR KFPCSLCKRS FEKRDRRLRIH ILHVHEKHRP HKCSTCGKCF SQSSSLNKH RVHSGDRPYQ CVYCTKRFTA SSILRTHIRQ HSGEKPFKCK YCGKSFASHA AHDShVRRSH KEDDGCS CSI CGKIFSDQET FYSHMKFHED Y</p>

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.

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:	PRDM14
Alternative Name:	PRDM14 (PRDM14 Products)
Background:	<p>PR domain zinc finger protein 14 (EC 2.1.1.-) (PR domain-containing protein 14),FUNCTION: Transcription factor that has both positive and negative roles on transcription. Required for the maintenance of embryonic stem cell identity and the reacquisition of pluripotency in somatic cells. May play an essential role in germ cell development at 2 levels: the reacquisition of potential pluripotency, including SOX2 up-regulation, and successful epigenetic reprogramming, characterized by EHMT1 repression. Its association with CBFA2T2 is required for the functions in pluripotency and germ cell formation (By similarity). Directly up-regulates the expression of pluripotency gene POU5F1 through its proximal enhancer. Binds to the DNA consensus sequence 5'-GGTC[TC]CTAA-3'. {ECO:0000250 UniProtKB:E9Q3T6, ECO:0000269 PubMed:17942894, ECO:0000269 PubMed:20953172}.</p>
Molecular Weight:	64.1 kDa
UniProt:	Q9GZV8

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:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
Restrictions:	For Research Use only

Handling

Format:	Liquid
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Handling

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