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ZNF683 Protein (AA 1-524) (Strep Tag)



Image



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Overview

Quantity:	1 mg
Target:	ZNF683
Protein Characteristics:	AA 1-524
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZNF683 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:

MKEESAAQLG CCHRPMALGG TGGSLSPSLD FQLFRGDQVF SACRPLPDMV DAHGPSCASW LCPLPLAPGR SALLACLQDL DLNLCTPQPA PLGTDLQGLQ EDALSMKHEP PGLQASSTDD KKFTVKYPQN KDKLGKQPER AGEGAPCPAF SSHNSSSPPP LQNRKSPSPL AFCPCPPVNS ISKELPFLLH AFYPGYPLLL PPPHLFTYGA LPSDQCPHLL MLPQDPSYPT MAMPSLLMMV NELGHPSARW ETLLPYPGAF QASGQALPSQ ARNPGAGAAP TDSPGLERGG MASPAKRVPL SSQTGTAALP YPLKKKNGKI LYECNICGKS FGQLSNLKVH LRVHSGERPF QCALCQKSFT QLAHLQKHHL VHTGERPHKC SIPWVPGRNH WKSFQAWRER EVCHKRFSSS SNLKTHLRLH SGARPFQCSV CRSRFTQHIH LKLHHRLHAP QPCGLVHTQL PLASLACLAQ WHQGALDLMA VASEKHMGYD IDEVKVSSTS QGKARAVSLS SAGTPLVMGQ DQNN

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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 in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

- 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
- 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and

Product Details

	Western blot.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade
Target Details	
Target:	ZNF683
Alternative Name:	ZNF683 (ZNF683 Products)
Background:	Tissue-resident T-cell transcription regulator protein ZNF683 (Homolog of Blimp-1 in T-cell)
	(Hobit) (Zinc finger protein 683),FUNCTION: Transcription factor that mediates a transcriptional
	program in various innate and adaptive immune tissue-resident lymphocyte T-cell types such
	as tissue-resident memory T (Trm), natural killer (trNK) and natural killer T (NKT) cells and
	negatively regulates gene expression of proteins that promote the egress of tissue-resident T-
	cell populations from non-lymphoid organs. Plays a role in the development, retention and long
	term establishment of adaptive and innate tissue-resident lymphocyte T cell types in non-
	lymphoid organs, such as the skin and gut, but also in other nonbarrier tissues like liver and
	kidney, and therefore may provide immediate immunological protection against reactivating
	infections or viral reinfection. Also plays a role in the differentiation of both thymic and
	peripheral NKT cells. Negatively regulates the accumulation of interferon-gamma (IFN-gamma
	in NKT cells at steady state or after antigenic stimulation. Positively regulates granzyme B
	production in NKT cells after innate stimulation. Associates with the transcriptional repressor
	PRDM1/BLIMP1 to chromatin at gene promoter regions. {ECO:0000250 UniProtKB:I7HJS4}.,
	FUNCTION: [Isoform 1]: Lacks transcriptional repressor activity. Binds to DNA within promoter
	regions of the transcriptional repressor PRDM1/BLIMP1 target sites. Unable to regulate
	interferon-gamma (IFN-gamma) production in cytomegalovirus (CMV)-infected effector CD8(+
	T-cells. {EC0:0000269 PubMed:26179882}., FUNCTION: [Isoform 2]: Transcriptional repressor
	that binds to DNA within promoter regions of the transcriptional repressor PRDM1/BLIMP1
	target sites. Regulates interferon-gamma (IFN-gamma) production in cytomegalovirus (CMV)-
	infected effector CD8(+) T cells. {ECO:0000269 PubMed:26179882}.
Molecular Weight:	56.9 kDa
UniProt:	Q8IZ20

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. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

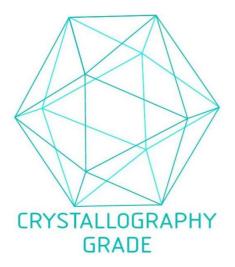


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process