Datasheet for ABIN3093067

IL16 Protein (AA 1-1332) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	IL16
Protein Characteristics:	AA 1-1332
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL16 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	MESHSRAGKS RKSAKFRSIS RSLMLCNAKT SDDGSSPDEK YPDPFEISLA QGKEGIFHSS VQLADTSEAG PSSVPDLALA SEAAQLQAAG NDRGKTCRRI FFMKESSTAS SREKPGKLEA QSSNFLFPKA CHQRARSNST SVNPYCTREI DFPMTKKSAA PTDRQPYSLC SNRKSLSQQL DCPAGKAAGT SRPTRSLSTA QLVQPSGGLQ ASVISNIVLM KGQAKGLGFS IVGGKDSIYG PIGIYVKTIF AGGAAAADGR LQEGDEILEL NGESMAGLTH QDALQKFKQA KKGLLTLTVR TRLTAPPSLC SHLSPPLCRS LSSSTCITKD SSSFALESPS APISTAKPNY RIMVEVSLQK EAGVGLGIGL CSVPYFQCIS GIFVHTLSPG SVAHLDGRLR CGDEIVEISD SPVHCLTLNE VYTILSHCDP GPVPIIVSRH PDPQVSEQQL KEAVAQAVEN TKFGKERHQW SLEGVKRLES SWHGRPTLEK EREKNSAPPH RRAQKVMIRS SSDSSYMSGS PGGSPGSGSA EKPSSDVDIS THSPSLPLAR EPVVLSIASS RLPQESPPLP ESRDSHPPLR LKKSFEILVR KPMSSKPKPP PRKYFKSDSD PQKSLEEREN SSCSSGHTPP TCGQEARELL PLLLPQEDTA GRSPSASAGC

PGPGIGPQTK SSTEGEPGWR RASPVTQTSP IKHPLLKRQA RMDYSFDTTA EDPWVRISDC IKNLFSPIMS ENHGHMPLQP NASLNEEEGT QGHPDGTPPK LDTANGTPKV YKSADSSTVK KGPPVAPKPA WFRQSLKGLR NRASDPRGLP DPALSTQPAP ASREHLGSHI RASSSSSSIR QRISSFETFG SSQLPDKGAQ RLSLQPSSGE AAKPLGKHEE GRFSGLLGRG AAPTLVPQQP EQVLSSGSPA ASEARDPGVS ESPPPGRQPN QKTLPPGPDP LLRLLSTQAE ESQGPVLKMP SQRARSFPLT RSQSCETKLL DEKTSKLYSI SSQVSSAVMK SLLCLPSSIS CAQTPCIPKE GASPTSSSNE DSAANGSAET SALDTGFSLN LSELREYTEG LTEAKEDDDG DHSSLQSGQS VISLLSSEEL KKLIEEVKVL DEATLKQLDG IHVTILHKEE GAGLGFSLAG GADLENKVIT VHRVFPNGLA SQEGTIQKGN EVLSINGKSL KGTTHHDALA ILRQAREPRQ AVIVTRKLTP EAMPDLNSST DSAASASAAS DVSVESTAEA TVCTVTLEKM SAGLGFSLEG GKGSLHGDKP LTINRIFKGA ASEQSETVQP GDEILQLGGT AMQGLTRFEA WNIIKALPDG PVTIVIRRKS LQSKETTAAG DS

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

Product Details

	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:	IL16
Alternative Name:	IL16 (IL16 Products)
Background:	Pro-interleukin-16 [Cleaved into: Interleukin-16 (IL-16) (Lymphocyte chemoattractant factor) (LCF)],FUNCTION: Interleukin-16 stimulates a migratory response in CD4+ lymphocytes, monocytes, and eosinophils. Primes CD4+ T-cells for IL-2 and IL-15 responsiveness. Also induces T-lymphocyte expression of interleukin 2 receptor. Ligand for CD4., FUNCTION: [Isoform 1]: May act as a scaffolding protein that anchors ion channels in the membrane., FUNCTION: Isoform 3 is involved in cell cycle progression in T-cells. Appears to be involved in transcriptional regulation of SKP2 and is probably part of a transcriptional repression complex on the core promoter of the SKP2 gene. May act as a scaffold for GABPB1 (the DNA-binding subunit the GABP transcription factor complex) and HDAC3 thus maintaining transcriptional repression and blocking cell cycle progression in resting T-cells.
Molecular Weight:	141.8 kDa
UniProt:	Q14005

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

Application Details

	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