Datasheet for ABIN3091734

CLEC16A Protein (AA 1-1053) (Strep Tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	CLEC16A
Protein Characteristics:	AA 1-1053
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CLEC16A protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MFGRSRSWVG GGHGKTSRNI HSLDHLKYLY HVLTKNTTVT EQNRNLLVET IRSITEILIW GDQNDSSVFD FFLEKNMFVF FLNILRQKSG RYVCVQLLQT LNILFENISH ETSLYYLLSN NYVNSIIVHK FDFSDEEIMA YYISFLKTLS LKLNNHTVHF FYNEHTNDFA LYTEAIKFFN HPESMVRIAV RTITLNVYKV SLDNQAMLHY IRDKTAVPYF SNLVWFIGSH VIELDDCVQT DEEHRNRGKL SDLVAEHLDH LHYLNDILII NCEFLNDVLT DHLLNRLFLP LYVYSLENQD KGGERPKISL PVSLYLLSQV FLIIHHAPLV NSLAEVILNG DLSEMYAKTE QDIQRSSAKP SIRCFIKPTE TLERSLEMNK HKGKRRVQKR PNYKNVGEEE DEEKGPTEDA QEDAEKAKGT EGGSKGIKTS GESEEIEMVI MERSKLSELA ASTSVQEQNT TDEEKSAAAT CSESTQWSRP FLDMVYHALD SPDDDYHALF VLCLLYAMSH NKGMDPEKLE RIQLPVPNAA EKTTYNHPLA ERLIRIMNNA AQPDGKIRLA TLELSCLLLK QQVLMSAGCI MKDVHLACLE GAREESVHLV RHFYKGEDIF LDMFEDEYRS MTMKPMNVEY LMMDASILLP PTGTPLTGID FVKRLPCGDV

EKTRRAIRVF FMLRSLSLQL RGEPETQLPL TREEDLIKTD DVLDLNNSDL IACTVITKDG GMVQRFLAVD IYQMSLVEPD VSRLGWGVVK FAGLLQDMQV TGVEDDSRAL NITIHKPASS PHSKPFPILQ ATFIFSDHIR CIIAKQRLAK GRIQARRMKM QRIAALLDLP IQPTTEVLGF GLGSSTSTQH LPFRFYDQGR RGSSDPTVQR SVFASVDKVP GFAVAQCINQ HSSPSLSSQS PPSASGSPSG SGSTSHCDSG GTSSSSTPST AQSPADAPMS PELPKPHLPD QLVIVNETEA DSKPSKNVAR SAAVETASLS PSLVPARQPT ISLLCEDTAD TLSVESLTLV PPVDPHSLRS LTGMPPLSTP AAACTEPVGE EAACAEPVGT AED

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.

Product Details

- 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:	CLEC16A
Alternative Name:	CLEC16A (CLEC16A Products)
Background:	Protein CLEC16A (C-type lectin domain family 16 member A),FUNCTION: Regulator of mitophagy through the upstream regulation of the RNF41/NRDP1-PRKN pathway. Mitophagy is a selective form of autophagy necessary for mitochondrial quality control. The RNF41/NRDP1-PRKN pathway regulates autophagosome-lysosome fusion during late mitophagy. May protect RNF41/NRDP1 from proteasomal degradation, RNF41/NRDP1 which regulates proteasomal degradation of PRKN. Plays a key role in beta cells functions by regulating mitophagy/autophagy and mitochondrial health. {ECO:0000269|PubMed:24949970}.
Molecular Weight:	117.7 kDa
UniProt:	Q2KHT3

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

Application Details

	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