antibodies

Datasheet for ABIN3098348 CAMLG Protein (AA 1-296) (Strep Tag)





Overview

Quantity:	1 mg
Target:	CAMLG
Protein Characteristics:	AA 1-296
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CAMLG protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:	MESMAVATDG GERPGVPAGS GLSASQRRAE LRRRKLLMNS EQRINRIMGF HRPGSGAEEE
	SQTKSKQQDS DKLNSLSVPS VSKRVVLGDS VSTGTTDQQG GVAEVKGTQL GDKLDSFIKP
	PECSSDVNLE LRQRNRGDLT ADSVQRGSRH GLEQYLSRFE EAMKLRKQLI SEKPSQEDGN
	TTEEFDSFRI FRLVGCALLA LGVRAFVCKY LSIFAPFLTL QLAYMGLYKY FPKSEKKIKT
	TVLTAALLLS GIPAEVINRS MDTYSKMGEV FTDLCVYFFT FIFCHELLDY WGSEVP
	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
	system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.
Characteristics:	
Characteristics:	have a special request, please contact us.
Characteristics:	have a special request, please contact us. Key Benefits:

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3098348 | 04/17/2024 | Copyright antibodies-online. All rights reserved.

- 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 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 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®):
	 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. 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 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)

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN3098348 | 04/17/2024 | Copyright antibodies-online. All rights reserved.

Product Details

Grade:

Crystallography grade

Target Details

Target:	CAMLG
Alternative Name:	CAMLG (CAMLG Products)
Background:	Guided entry of tail-anchored proteins factor CAMLG (Calcium signal-modulating cyclophilin
	ligand),FUNCTION: Required for the post-translational delivery of tail-anchored (TA) proteins to
	the endoplasmic reticulum (PubMed:23041287, PubMed:24392163, PubMed:27226539).
	Together with GET1/WRB, acts as a membrane receptor for soluble GET3/TRC40, which
	recognizes and selectively binds the transmembrane domain of TA proteins in the cytosol
	(PubMed:23041287, PubMed:24392163, PubMed:27226539). Required for the stability of GET
	(PubMed:32187542). Stimulates calcium signaling in T cells through its involvement in
	elevation of intracellular calcium (PubMed:7522304). Essential for the survival of peripheral
	follicular B cells (By similarity). {ECO:0000250 UniProtKB:P49070,
	ECO:0000269 PubMed:23041287, ECO:0000269 PubMed:24392163,
	ECO:0000269 PubMed:27226539, ECO:0000269 PubMed:32187542,
	ECO:0000269 PubMed:7522304}.
Molecular Weight:	33.0 kDa
UniProt:	P49069
Pathways:	EGFR Signaling Pathway
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
	even the most difficult-to-express proteins, including those that require post-translational modifications.
	modifications.
	modifications. During lysate production, the cell wall and other cellular components that are not required for

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN3098348 | 04/17/2024 | Copyright antibodies-online. All rights reserved.

Application Details	
	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)

Images

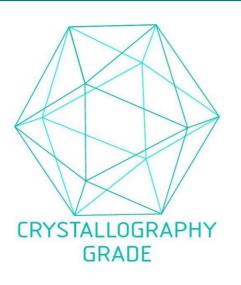


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 4/4 | Product datasheet for ABIN3098348 | 04/17/2024 | Copyright antibodies-online. All rights reserved.