

Datasheet for ABIN3129573 EHHADH Protein (AA 1-718) (Strep Tag)



Overview

Quantity:	250 µg
Target:	EHHADH
Protein Characteristics:	AA 1-718
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This EHHADH protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MAEYLRLPHS LAMIRLCNPP VNAISPTVIT EVRNGLQKAS LDHTVRAIVI CGANDNFCAG
	ADIHGFKSPT GLTLGSLVDE IQRYQKPVVA AIQGVALGGG LELALGCHYR IANAKARVGF
	PEVMLGILPG ARGTQLLPRV VGVPVALDLI TSGRHISTDE ALKLGILDVV VKSDPVEEAI
	KFAQTVIGKP IEPRRILNKP VPSLPNMDSV FAEAIAKVRK QYPGRLAPET CVRSVQASVK
	HPYEVAIKEE AKLFMYLRGS GQARALQYAF FAEKSANKWS TPSGASWKTA SAQPVSSVGV
	LGLGTMGRGI AISFARVGIP VVAVESDPKQ LDTAKKIITS TLEKEASKSG QASAKPNLRF
	SSSTKELSSV DLVIEAVFED MNLKKKVFAE LSALCKPGAF LCTNTSALDV DDIASSTDRP
	QLVIGTHFFS PAHIMRLLEV IPSRYSSPTT IATVMSLSKR IGKIGVVVGN CYGFVGNRML
	APYYNQGYFL IEEGSKPEDV DGVLEEFGFR MGPFRVSDLA GLDVGWKVRK GQGLTGPSLP
	PGTPTRKRGN TRYSPIADML CEAGRFGQKT GKGWYQYDKP LGRIHKPDPW LSEFLSQYRE
	THHIKQRSIS KEEILERCLY SLINEAFRIL EEGMAASPEH IDVIYLHGYG WPRHVGGPMY

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 ABIN3129573 | 02/25/2025 | Copyright antibodies-online. All rights reserved.

YAASVGLPTV LEKLQKYYRQ NPDIPQLEPS DYLRRLVAQG SPPLKEWQSL AGPHSSKL
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: Ke

Key Benefits:

- Made in Germany from design to production by highly experienced protein experts.
- Protein expressed with $\mbox{ALiCE} \ensuremath{\$}$ 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 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 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®).

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 ABIN3129573 | 02/25/2025 | Copyright antibodies-online. All rights reserved.

Product Details

 Purity:
 > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

 Grade:
 custom-made

Target Details

ranget betane	
Target:	EHHADH
Alternative Name:	Ehhadh (EHHADH Products)
Background:	Peroxisomal bifunctional enzyme (PBE) (PBFE) (L-peroxisomal bifunctional enzyme) (L-PBE)
	(Multifunctional enzyme 1) (MFE1) (Multifunctional protein 1) (MFP-1) [Includes: Enoyl-CoA
	hydratase/3,2-trans-enoyl-CoA isomerase (EC 4.2.1.17) (EC 5.3.3.8), 3-hydroxyacyl-CoA
	dehydrogenase (EC 1.1.1.35)],FUNCTION: Peroxisomal trifunctional enzyme possessing 2-
	enoyl-CoA hydratase, 3-hydroxyacyl-CoA dehydrogenase, and delta 3, delta 2-enoyl-CoA
	isomerase activities. Catalyzes two of the four reactions of the long chain fatty acids
	peroxisomal beta-oxidation pathway (PubMed:17442273, PubMed:24075987). Can also use
	branched-chain fatty acids such as 2-methyl-2E-butenoyl-CoA as a substrate, which is hydrated
	into (2S,3S)-3-hydroxy-2-methylbutanoyl-CoA (By similarity). Optimal isomerase for 2,5 double
	bonds into 3,5 form isomerization in a range of enoyl-CoA species. Also able to isomerize both
	3-cis and 3-trans double bonds into the 2-trans form in a range of enoyl-CoA species (By
	similarity). With HSD17B4, catalyzes the hydration of trans-2-enoyl-CoA and the
	dehydrogenation of 3-hydroxyacyl-CoA, but with opposite chiral specificity (Probable).
	Regulates the amount of medium-chain dicarboxylic fatty acids which are essential regulators
	of all fatty acid oxidation pathways (PubMed:24075987). Also involved in the degradation of
	long-chain dicarboxylic acids through peroxisomal beta-oxidation (By similarity).
	{EC0:0000250 UniProtKB:P07896, EC0:0000250 UniProtKB:Q08426,
	ECO:0000269 PubMed:17442273, ECO:0000269 PubMed:24075987,
	EC0:0000305 PubMed:24075987}.
Molecular Weight:	78.3 kDa
UniProt:	Q9DBM2
Pathways:	Monocarboxylic Acid Catabolic Process
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.

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 ABIN3129573 | 02/25/2025 | Copyright antibodies-online. All rights reserved.

Application Details

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