

Datasheet for ABIN3130403 ACSL4 Protein (AA 1-711) (Strep Tag)



Overview

Quantity:	250 µg
Target:	ACSL4
Protein Characteristics:	AA 1-711
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ACSL4 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MNLKLNVLTI ILLPVHLLIT IYSALIFIPW YFLTNAKKKN AMAKRIKAKP TSDKPGSPYR
	SVTHFDSLAV IDIPGADTLD KLFDHAVAKF GKKDSLGTRE ILSEENEMQP NGKVFKKLIL
	GNYKWINYLE VNCRVNNFGS GLTALGLKPK NTIAIFCETR AEWMIAAQTC FKYNFPLVTL
	YATLGREAVV HGLNESEASY LITSVELLES KLKAALVDIN CVKHIIYVDN KTINRAEYPE
	GLEIHSMQSV EELGAKPENL SVPPSRPTPS DMAIVMYTSG STGRPKGVMM HHSNLIAGMT
	GQCERIPGLG PKDTYIGYLP LAHVLELTAE ISCFTYGCRI GYSSPLTLSD QSSKIKKGSK
	GDCTVLKPTL MAAVPEIMDR IYKNVMSKVQ EMNYVQKTLF KIGYDYKLEQ IKKGYDAPLC
	NLILFKKVKA LLGGNVRMML SGGAPLSPQT HRFMNVCFCC PIGQGYGLTE SCGAGTVTEV
	TDYTTGRVGA PLICCEIKLK DWQEGGYTVH DKPNPRGEIV IGGQNISMGY FKNEEKTAED
	YCVDENGQRW FCTGDIGEFH PDGCLQIIDR KKDLVKLQAG EYVSLGKVEA ALKNCPLIDN
	ICAFAKSDQS YVISFVVPNQ KKLTLLAQQK GVEGSWVDIC NNPAMEAEIL KEIREAANAM

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KLERFEIPIK VRLSPEPWTP ETGLVTDAFK LKRKELKNHY LKDIERMYGG K

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

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 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®).

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Product Details

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

Target Details

Target:	ACSL4
Alternative Name:	Acsl4 (ACSL4 Products)
Background:	Long-chain-fatty-acidCoA ligase 4 (EC 6.2.1.3) (ArachidonateCoA ligase) (EC 6.2.1.15) (Long-
	chain acyl-CoA synthetase 4) (LACS 4) (mACS4),FUNCTION: Catalyzes the conversion of long-
	chain fatty acids to their active form acyl-CoA for both synthesis of cellular lipids, and
	degradation via beta-oxidation. Preferentially activates arachidonate and eicosapentaenoate as
	substrates. Preferentially activates 8,9-EET > 14,15-EET > 5,6-EET > 11,12-EET. Modulates
	glucose-stimulated insulin secretion by regulating the levels of unesterified EETs (By similarity).
	Modulates prostaglandin E2 secretion (By similarity). {ECO:0000250 UniProtKB:035547,
	EC0:0000250 UniProtKB:060488}.
Molecular Weight:	79.1 kDa
UniProt:	Q9QUJ7
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

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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