antibodies

Datasheet for ABIN3137062 Acsl3 Protein (AA 1-720) (Strep Tag)



Overview

Quantity:	1 mg
Target:	Acsl3
Protein Characteristics:	AA 1-720
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Acsl3 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MNNHVSSTPS TMKLKQTINP ILLYFIHFII SLYTILTYIP FYFLCESKQE KPNQIKAKPV
	SSKPDSAYRS INSVDGLASV LYPGCDTLDK VFMYAKNKFK NKRLLGTREI LNEEDEIQPN
	GKIFKKVILG HYNWLSYEDV FIRALDFGNG LQMLGQKPKA NIAIFCETRA EWMIAAQACF
	MYNFQLVTLY ATLGGPAIVH GLNETEVTNI ITSKELLQTK LKDIVSLVPR LRHIITVDGK
	PPTWSEFPKG VIVHTMAAVQ ALGVKANVEK KAHSKPLPSD IAVIMYTSGS TGIPKGVMIS
	HSNIIASITG MARRIPRLGE EDVYIGYLPL AHVLELSAEL VCLSHGCRIG YSSPQTLADQ
	SSKIKKGSKG DTSVLKPTLM AAVPEIMDRI YKNVMNKVNE MSAFQRNLFI LAYNYKMEQI
	SKGCSTPLCD RFVFRNVRRL LGGNIRLLLC GGAPLSATTQ RFMNICFCCP VGQGYGLTES
	TGAGTITEVW DYNTGRVGAP LVCCEIKLKN WEEGGYFNTD KPHPRGEILI GGQNVTMGYY
	KNEAKTKTDF FEDENGQRWL CTGDIGEFDP DGCLKIIDRK KDLVKLQAGE YVSLGKVEAA
	LKNLPLIDNI CAYANSYHSY VIGFVVPNQK ELTELARTKG FKGTWEELCN SSEMENEVLK
	VLSEAAISAS LEKFEIPLKI RLSPDPWTPE TGLVTDAFKL KRKELKTHYQ ADIERMYGRK

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 ABIN3137062 | 05/08/2024 | Copyright antibodies-online. All rights reserved. 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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 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 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®):

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	 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:	\ge 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)

Target Details

Target:	Acsl3
Alternative Name:	Acsl3 (Acsl3 Products)
Background:	Fatty acid CoA ligase Acsl3 (ArachidonateCoA ligase) (EC 6.2.1.15) (Long-chain acyl-CoA
	synthetase 3) (LACS 3) (Long-chain-fatty-acidCoA ligase 3) (EC 6.2.1.3) (Medium-chain acyl-
	CoA ligase Acsl3) (EC 6.2.1.2),FUNCTION: Acyl-CoA synthetases (ACSL) activates long-chain
	fatty acids for both synthesis of cellular lipids, and degradation via beta-oxidation (By similarity)
	ACSL3 is required for the incorporation of fatty acids into phosphatidylcholine, the major
	phospholipid located on the surface of VLDL (very low density lipoproteins) (By similarity). Has
	mainly an anabolic role in energy metabolism. Mediates hepatic lipogenesis. Preferentially uses
	myristate, laurate, arachidonate and eicosapentaenoate as substrates. Both isoforms exhibit
	the same level of activity (By similarity). {ECO:0000250, ECO:0000250 UniProtKB:095573,
	ECO:0000250 UniProtKB:Q63151}.
Molecular Weight:	80.5 kDa
UniProt:	Q9CZW4
Pathways:	SARS-CoV-2 Protein Interactome
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

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	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
Llondling	
Handling	
Format:	Liquid
	Liquid The buffer composition is at the discretion of the manufacturer. If you have a special request,
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Format:	The buffer composition is at the discretion of the manufacturer. If you have a special request,
Format: Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Format: Buffer: Handling Advice:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us. Avoid repeated freeze-thaw cycles.