Datasheet for ABIN3111290

Acsl3 Protein (AA 1-720) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	Acsl3
Protein Characteristics:	AA 1-720
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Acsl3 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MNNHVSSKPS TMKLKHTINP ILLYFIHFLI SLYTILTYIP FYFFSESRQE KSNRIKAKPV NSKPDSAYRS VNSLDGLASV LYPGCDTLDK VFTYAKNKFK NKRLLGTREV LNEEDEVQPN GKIFKKVILG QYNWLSYEDV FVRAFNFGNG LQMLGQKPKT NIAIFCETRA EWMIAAQACF MYNFQLVTLY ATLGGPAIVH ALNETEVTNI ITSKELLQTK LKDIVSLVPR LRHIITVDGK PPTWSEFPKG IIVHTMAAVE ALGAKASMEN QPHSKPLPSD IAVIMYTSGS TGLPKGVMIS HSNIIAGITG MAERIPELGE EDVYIGYLPL AHVLELSAEL VCLSHGCRIG YSSPQTLADQ SSKIKKGSKG DTSMLKPTLM AAVPEIMDRI YKNVMNKVSE MSSFQRNLFI LAYNYKMEQI SKGRNTPLCD SFVFRKVRSL LGGNIRLLLC GGAPLSATTQ RFMNICFCCP VGQGYGLTES AGAGTISEVW DYNTGRVGAP LVCCEIKLKN WEEGGYFNTD KPHPRGEILI GGQSVTMGYY KNEAKTKADF FEDENGQRWL CTGDIGEFEP DGCLKIIDRK KDLVKLQAGE YVSLGKVEAA LKNLPLVDNI CAYANSYHSY VIGFVVPNQK ELTELARKKG LKGTWEELCN SCEMENEVLK

	VLSEAAISAS LEKFEIPVKI RLSPEPWTPE TGLVTDAFKL KRKELKTHYQ ADIERMYGRK **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. • 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®).

Product Details

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

Target Details

Target:	Acsl3
Alternative Name:	ACSL3 (Acsl3 Products)
Background:	Fatty acid CoA ligase Acsl3 (Arachidonate--CoA ligase) (EC 6.2.1.15) (Long-chain acyl-CoA synthetase 3) (LACS 3) (Long-chain-fatty-acid--CoA 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 (PubMed:22633490). Required for the incorporation of fatty acids into phosphatidylcholine, the major phospholipid located on the surface of VLDL (very low density lipoproteins) (PubMed:18003621). 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|UniProtKB:Q63151, ECO:0000269|PubMed:18003621, ECO:0000269|PubMed:22633490}.
Molecular Weight:	80.4 kDa
UniProt:	O95573
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 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